

A woman is shown from the chest up, wearing a blue VR headset and a tan zip-up hoodie over a white tank top. She is holding two blue VR controllers. The background is a bright, modern laboratory or workshop with large windows and industrial equipment. The overall scene is brightly lit, suggesting an indoor environment with natural light from the windows.

RDF

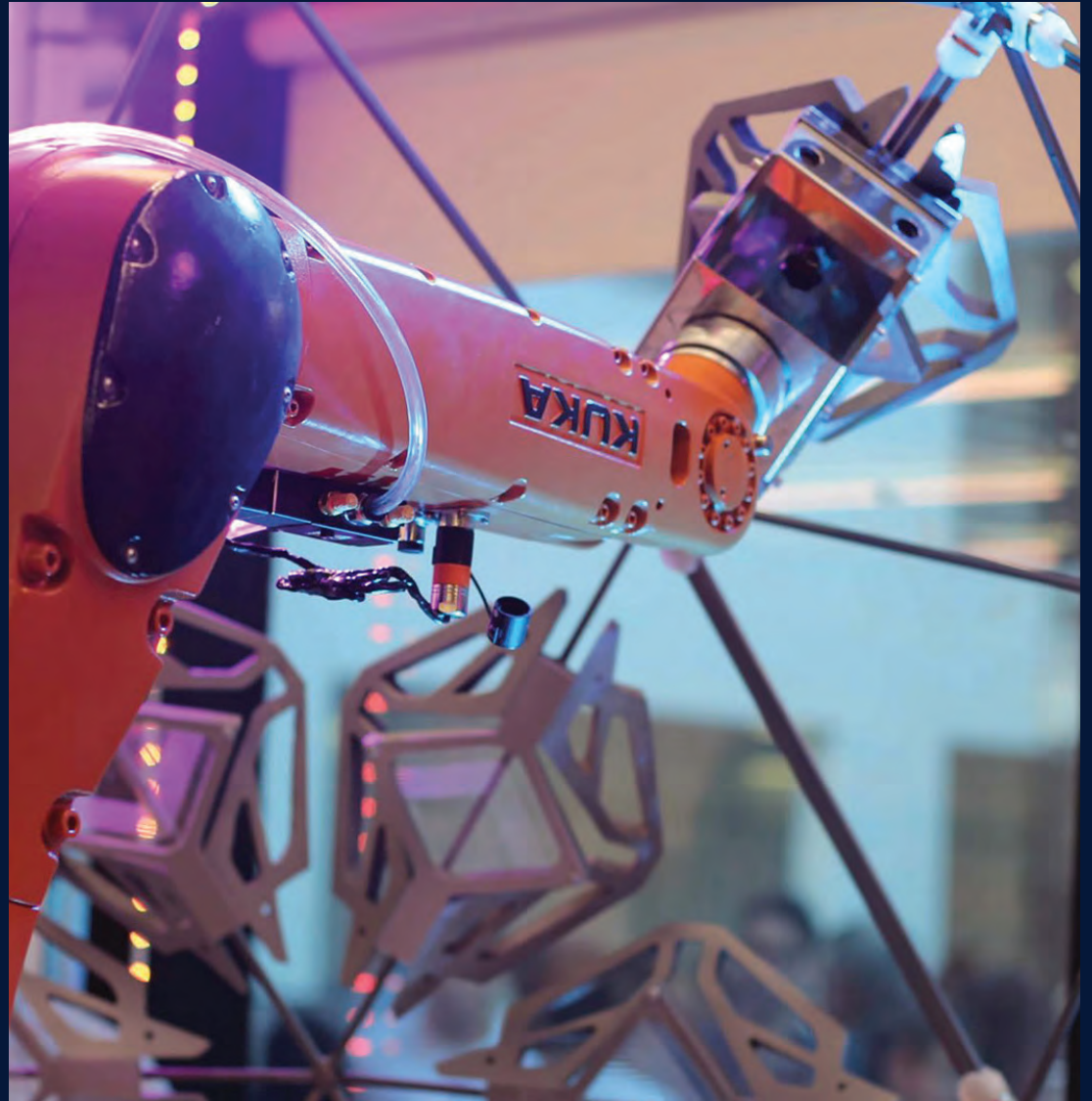
Robotic & Digital Fabrication Lab

Tech Fee Proposal
2024

About Us

RDF Lab at Florida International University is a dynamic interdisciplinary hub committed to advancing built environments through technological innovation. We leverage robotics and digital fabrication to improve material and environmental systems, construction processes, and architectural design.

Our vision is to create a future where our innovative research and collaborative endeavors result in sustainable and resilient built environments, enhancing the quality of life for all. We aim to position the RDF Lab as a cornerstone for interdisciplinary education and research, where Miami's diverse communities, students, and industry partners converge to innovate and harness the latest in digital fabrication and spatial computing technologies, driving progress in our local and global communities.



Lab Accomplishments

Our facility has harnessed state-of-the-art technologies to advance research and provide hands-on learning experiences, significantly enhancing FIU's stature on both national and international stages. Here are the highlights of accomplishments and forthcoming initiatives, with details available in the accompanying supplementary documents and RDF's website at <https://carta.fiu.edu/roboticslab/>.

- **Research Grants:** Securing Over \$3,000,000 in Federal Funding: Our facility has successfully obtained substantial federal funding for two main research areas: "Innovative Learning Platforms," which includes virtual reality-based training programs to augment learning, and "Emergent Materials & Digital Fabrication Projects," which explores groundbreaking applications like 3D printing seawall treatments to enhance biodiversity.
- **Continuous Training and Workshops:** We provide ongoing training through workshops and micro-credentialing courses, led by our faculty and graduate students. These sessions not only support the operational costs of the lab through external participant fees but are also offered free of charge to all FIU students, facilitating their hands-on learning and skill development.
- **Student Training and Mentorship:** A significant number of students have been trained and mentored at the lab as a part of ongoing projects, acquiring valuable skills and experiences that contribute to their academic and professional growth. Our active involvement in mentoring capstone courses for Computer Science, Electrical Engineering, and Mechanical Engineering students showcases our commitment to interdisciplinary learning and collaboration, further enhancing the educational experience at FIU.
- **Producing high-profile projects:** our students researched, developed, and produced
 - 1) a large-scale 3D printed model of Aquarius Reef Base which is an underwater laboratory at Florida Keys National Marine Sanctuary that provides a base for scientists to conduct long-term research and monitoring of coral reefs.
 - 2) a large-scale 3D-printed model of the Hard Rock Stadium commissioned by Miami-Dade Police by Stadium to be used for training ahead of the Super Bowl held in Miami. This project has received 60 Million views on social media and has been featured on several TV news channels, elevating FIU and its students both nationally and internationally <https://www.youtube.com/watch?v=rZKBQox0KdM>.
- **Student Success Stories:** Students affiliated with the lab have consistently been recognized for their outstanding achievements and the projects that they have conducted at our facilities.
- **Students and faculty publications:** Faculty and students at the lab have published 29 articles, and conference proceedings which are all available on the RDF website <https://carta.fiu.edu/roboticslab/publications/index.html>
- **Collaboration with FIU's NSF Center of Research Excellence in Science and Technology (CREST)** on several projects involving students from multiple disciplines. Examples of these include:
 - 1) Artificial shorelines
 - 2) Water Wand
 - 3) Low-cost Buoys.
- **Student Projects:** RDF students have continuously produced superior and award-winning projects.

Research Grants



Biodiversity Improvement by Optimizing Coastal Adaptation and Performance (BIOCAP)

Amount: \$477,000

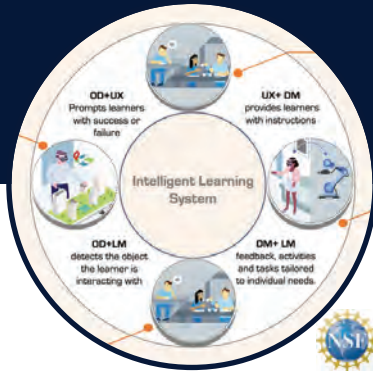
Grantee: EPA

Description: The “BIOCAP” initiative enhances Biscayne Bay’s ecosystem by deploying interlocking tiles with diverse textures to improve marine habitats and biodiversity.

Central to BIOCAP’s strategy is comprehensive research on coastal infrastructure design, informed by data analysis and AI optimization, to develop adaptive “BIOCAP” prototypes.



BIOCAP



Augmented Learning for Environmental Robotics Technologies (ALERT)

Amount: \$399,411

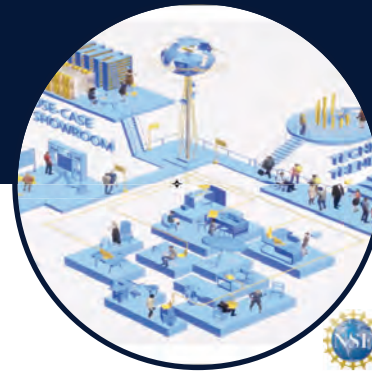
Agency: NSF

Description: ALERT aims to serve the national interest by developing and testing an AR learning platform for AEC students to prepare them for working with environmental data and robotics.

The project will address the need to prepare the AEC students to capture, analyze, and apply environmental data in order to reduce the impacts of human development and construction.



ALERT



Preparing the Future Workforce of AEC for Robotic Automation Processes

Amount: \$973,333

Grantee: NSF

Description: This project contributes to the research and application of AI and immersive virtual environments in education, as well as examining economic impacts of automation technology adoption in the AEC industries, using advanced technologies including Reinforcement Learning, Computer Vision, Augmented and Virtual Reality.



AUTOMATION



Intelligent Immersive Environments for Learning Robotics Operations

Amount: \$749,654

Grantee: NSF

Description: Utilizing emergent technologies, we develop, and test personalized learning tools for delivering an industrial robotics curriculum to prepare the next generation of the AEC workforce. The implementation of this project will contribute to technological advancement in AI-assisted Adaptive Intelligent Learning systems and our ability to apply state-of-the-art AI.



LEARNING

Training and Workshops



Blender for Digital Manufacturing

Led by: Luis Pacheco

Description: Participants learn Blender's Interface, focusing on the creation of 3D printable objects, computer controlled drawing and cutting, and the generation of toolpaths for robotic arms.



Concrete 3D Printing

Led by: Printera3D

Description: Leaders from Printera3D trained participants in 3D concrete printing using robotic arm extrusion. Participants learned material selection, mixing, and operational techniques through hands on sessions, fostering innovation in architectural design.



Future of Manufacturing

Led by: Luis Pacheco

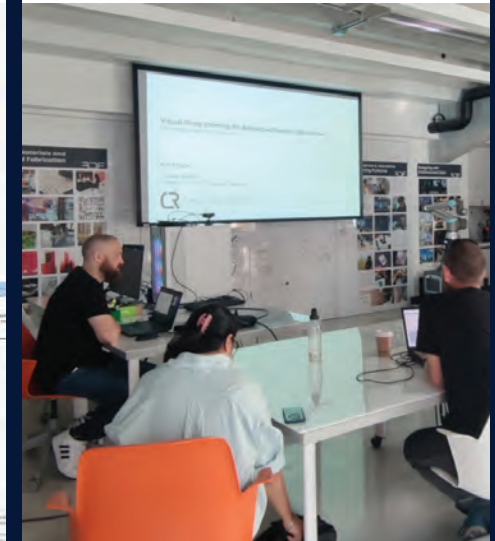
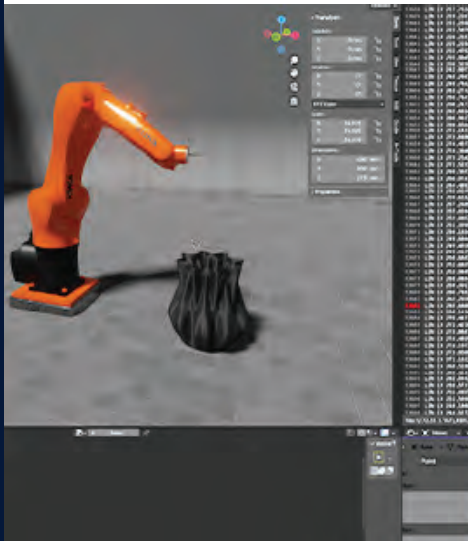
Description: This workshop explored innovative technologies, including additive manufacturing and sustainable materials, with the aim of establishing a research agenda geared towards creating a more efficient and sustainable future in construction.



Creative Robotics

Led by: Karl Singline

Description: Workshop aims to investigate state of the art application of robotics at various scales from the urban fabric right down to on-site construction materials.



Mentorships for Capstone Courses

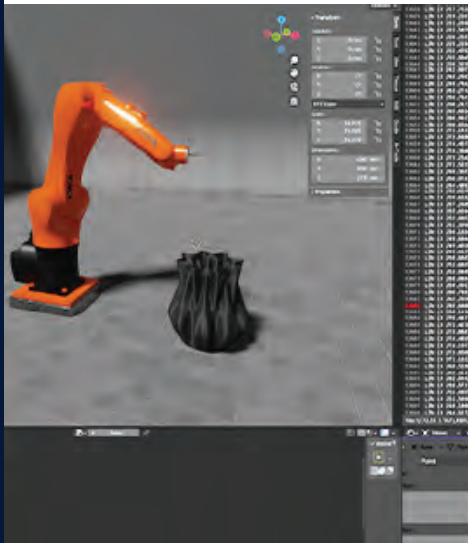


Bhavleen Kaur

Robot-Design Tool Kit

with FIU Knight Foundation and FIU Electrical Engineering

Alongside FIU's engineering and computer science students, researchers have developed a computational toolkit that allows for design iteration and accurate digital simulation of robots.



Luis Pacheco

Human-Robot Interfaces

with FIU Department of Electrical Engineering and Computer Science

Multidisciplinary Team comprising of Architecture, Electrical Engineering, and Computer Science who are developing new methods for robotic control interfaces and toolpathing.

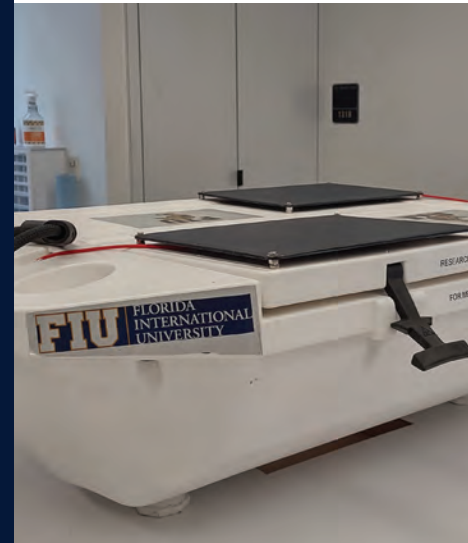


Biayna Bogosian

Low Cost Buoy

with FIU Institute of Environment and FIU Electrical Engineering

Multidisciplinary Team comprising of Architecture, Electrical Engineering, and Computer Science who have developed a cost-effective buoy for monitoring water pollution levels.



Colin Mele

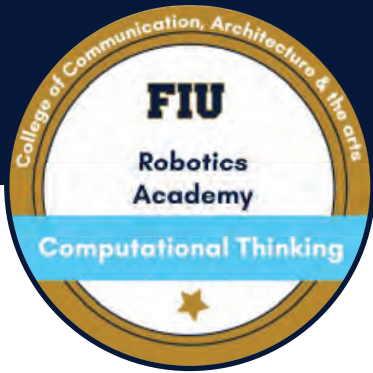
Water Wand

with FIU Institute of Environment and FIU Electrical Engineering

Multidisciplinary Team of Architecture, Electrical Engineering, and Computer Science developing a device that empowers the public to report water quality during flooding and extreme weather events.



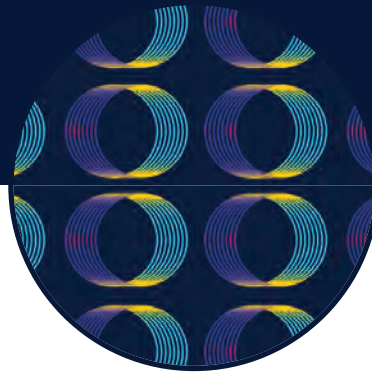
Micro-Credentialing Courses



Computational Thinking for Robotic Practices

Led by: Jorge Tubella

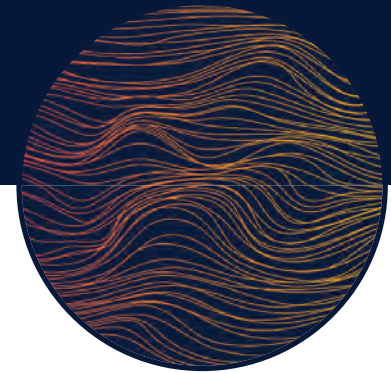
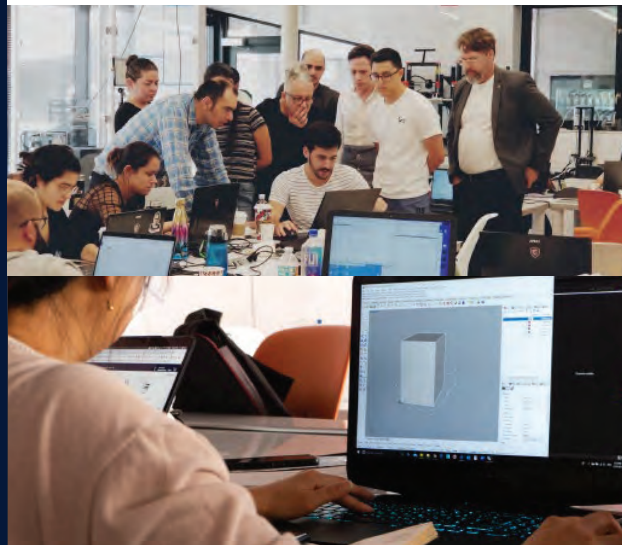
Description: Discussed fundamental concepts of coding and problem-solving tailored for robotics applications. Through hands-on activities and practical demonstrations, participants learned how to apply computational thinking principles to design, program, and optimize robotic systems for real-world challenges



Applications of 3D Printing

Led by: Eric Peterson

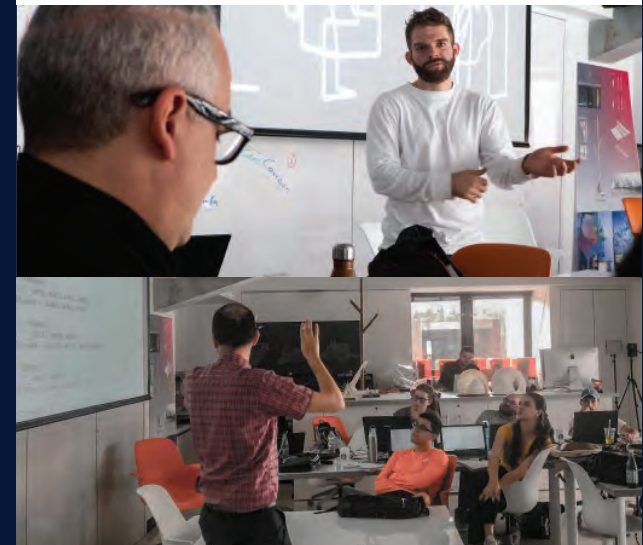
Description: Applications of 3D Printing helps students to develop innovative ideas and express them using drawing and 3D models for developing products, instruments, and tools using additive manufacturing and fabrication.



Fundamentals of Climate Leadership

Led by: Luis Pacheco

Description: The Climate Innovation Lab (CIL) supports student participants in building healthy and resilient communities. Through participatory learning processes, peer networking, and leadership tools, students developed skills for community-led climate solutions.

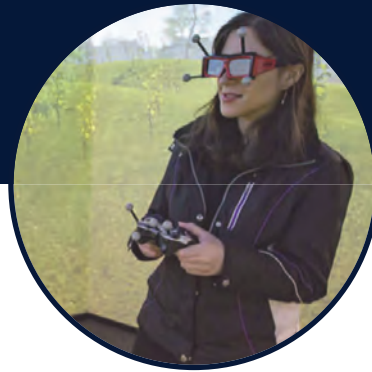


Research Areas and Projects



Innovative Learning Platforms

Emerging technologies have the promise to transform learning. These technologies can help tailor content for different learning abilities, styles, and diverse social and cultural backgrounds. Our work in this area integrates recent research on how people learn and advances in interactive and immersive technologies to respond to the needs of students and communities with different needs and proclivities. Our projects converge immersive technologies, game simulations, and Artificial Intelligence to design customized environments responsive to the learners' needs.



Spatial Computing and Representation

As we increasingly rely on live information platforms, smart distributed devices, and embedded sensors, finding approaches to access, comprehend, interact, and manipulate data is critical. Our work in this area of research leverages interactive and immersive technologies to develop exploratory and meaningful ways to engage with physical and virtual environments in order to make informed decisions about the environment.



Robotics and Material Systems

Transforming how we build is a global priority. Our buildings and infrastructure must be built faster and at a lower cost with dramatically reduced waste and environmental impacts. Robotic automation has the potential to reduce material waste, increase construction efficiency, and mitigate the impact of carbon emissions on the natural environment. Our work in this area focuses on developing solutions for the design, prototyping, and fabrication of building elements that improve the sustainability and resiliency of the environment.



Student Success Stories



Bhavleen Kaur

AAUW International Doctoral Degree Fellowship
 Bhavleen Kaur has been selected as a recipient of the American Association of University Women (AAUW) International Doctoral Degree Fellowship for the award year 2023-24. Her research during this fellowship will center on computational design, robotics, and architectural education, with a focus on optimizing the application of flexible manipulators in architectural robotics.



Lyla Di Wu

First Place in the Sustainability Tank at this CLDBES Program
 Lyla Wu, a doctoral candidate in design and a recipient of the NSF Crest Fellowship, achieved a significant milestone this summer when she was awarded the First Prize for her doctoral research project titled "Material Atlas: A Knowledge Sharing Platform for Sustainable Coastal Construction" at the NSF-supported program CLDBES hosted by Kyushu University in Japan.



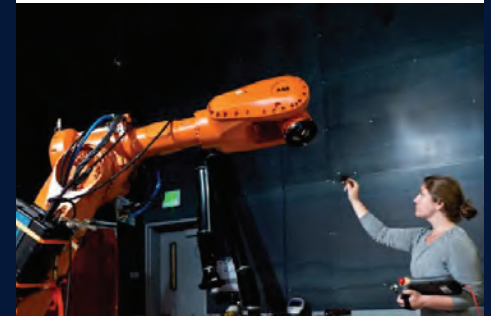
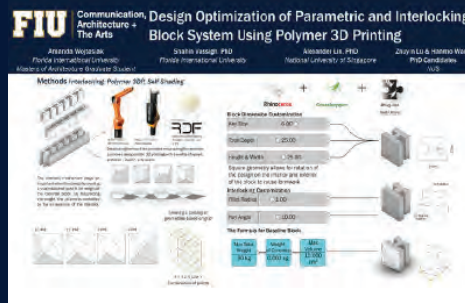
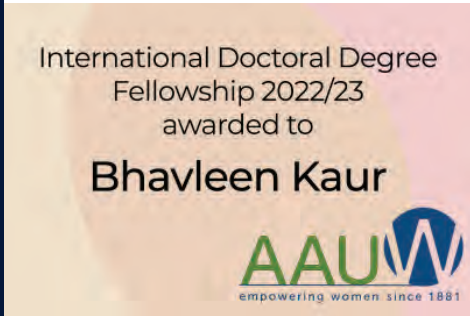
Amanda Wojtasiak

2nd Place at the 8th Thermal and Fluids Engineering Conference
 Amanda Wojtasiak participated in the second cohort of the NSF-IRES Funded Hybrid Program, where she conducted research in an international collaborative setting with professors at the National University of Singapore. This research is a study proposing a mechanical and parametric approach to CMU assembly. US Parameters of the design reduce the solar gain of a specific building type.



Madeline Gannon

Knight Foundation Grant - New Work South Florida
 Dr. Madeline Gannon, Researcher, and Artist in Residence at the Robotics and Digital Fabrication Lab (RDF) at the School of Architecture, has been awarded \$92,000 from the Knight Foundation for her project "Open-Source Toolkit for Creative Robotics." This project is designed to make robotics more accessible and relevant to the broader society through their incorporation into an art-based project to be exhibited at FIU School of Architecture.



CBS National News visit to the RDF Lab in April 2024



CBS News





CBS News

“3D-Printed Model Of Hard Rock Stadium Helps Miami-Dade Police Prepare For Super Bowl 54”

Security surrounding Super Bowl 54 is extremely tight, but Miami-Dade Police have gone high-tech in their security training by using a highly detailed 3D-printed model of Hard Rock Stadium, created by FIU students.

“Law enforcement has never done something like this before for a Super Bowl. This is a first for us, and the students at FIU are the ones who made it happen,” said Major Edgardo Caneva, who oversees the Miami-Dade Police Department’s Special Patrol Bureau and is the Super Bowl Operations Commander.

Students from the college’s Robotics and Digital Fabrication Lab designed and created the model.



NBC 6

“NBC 6 visited the Robotics and Fabrication Lab at FIU”

National Science Foundation has awarded \$1M to FIU to jump-start its Robotics Academy. The awarded team will develop some innovative training tools and educational resources for Architecture, Engineering and Construction industries through next-generation technology and training. Our goal is to support AEC workers, educators, business owners, business leaders, and economic development policymakers to drive the transition to an inclusive and prosperous robotic and AI automation economy for the future.

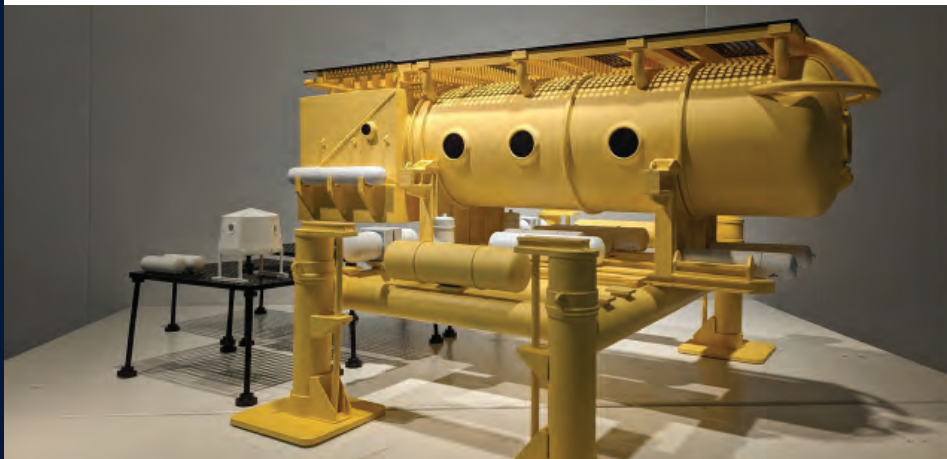




Aquarius reef

Located in the Florida Keys National Marine Sanctuary, Aquarius Reef Base has been instrumental in advancing our understanding of coral reef ecosystems. This unique underwater laboratory provides a base for scientists to conduct long-term research and monitoring of coral reefs, as well as develop new techniques for coral restoration and conservation. The facility is operated by Florida International University, and its research program is one of the longest-running and most detailed coral reef monitoring programs in the world.

In 2022, the RDF lab collaborated with the Institute of the Environment to produce two physical models: one depicting the existing Aquarius Reef Base and another illustrating a proposed structure for the future. The lab utilized 3D printing technology to create these models, providing visual representations to aid in communication and planning.



Collaborations



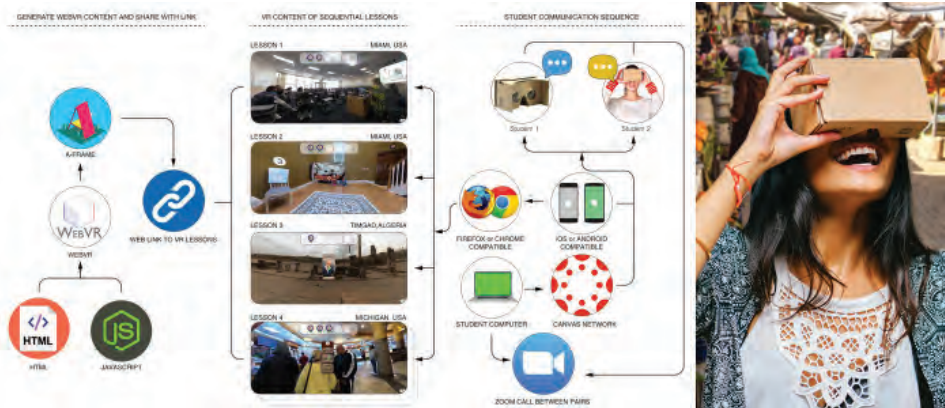
Above the Ground

Above the Ground is a sculptural seating installation that explores the connection and craft between the natural, artificial, and digital. Drawings and paintings from photographs of plant species inform the integrated cuts, etchings, and sculptural forms. 3D-printed renewable PLA vessels are camouflaged as organic forms filled with soil posing the question of how human beings can coexist with nature while adapting to new mediums of evolution.



Virtual Tabadul

FIU's Tabadul has created a Language-Learning Community using Virtual Reality (VR), uniting 1,200 college-aged individuals from the US and the Middle East/North Africa. Participants interact in VR spaces mimicking real-life settings from their respective countries, engaging in language exchange and cultural tasks in English and Arabic. This innovative project explores the impact of dosage and learning environments on Arabic language acquisition, contributing valuable insights to virtual exchange efficacy.



RDF

Robotic & Digital Fabrication Lab

VH100 Renovation

Space Description:

- Fabrication + Material Exploration
- 3D Printing Farm
- Electronics and Robotics
- Science and Bio-Tech
- Virtual and Augmented Reality
- Lectures and Workshops

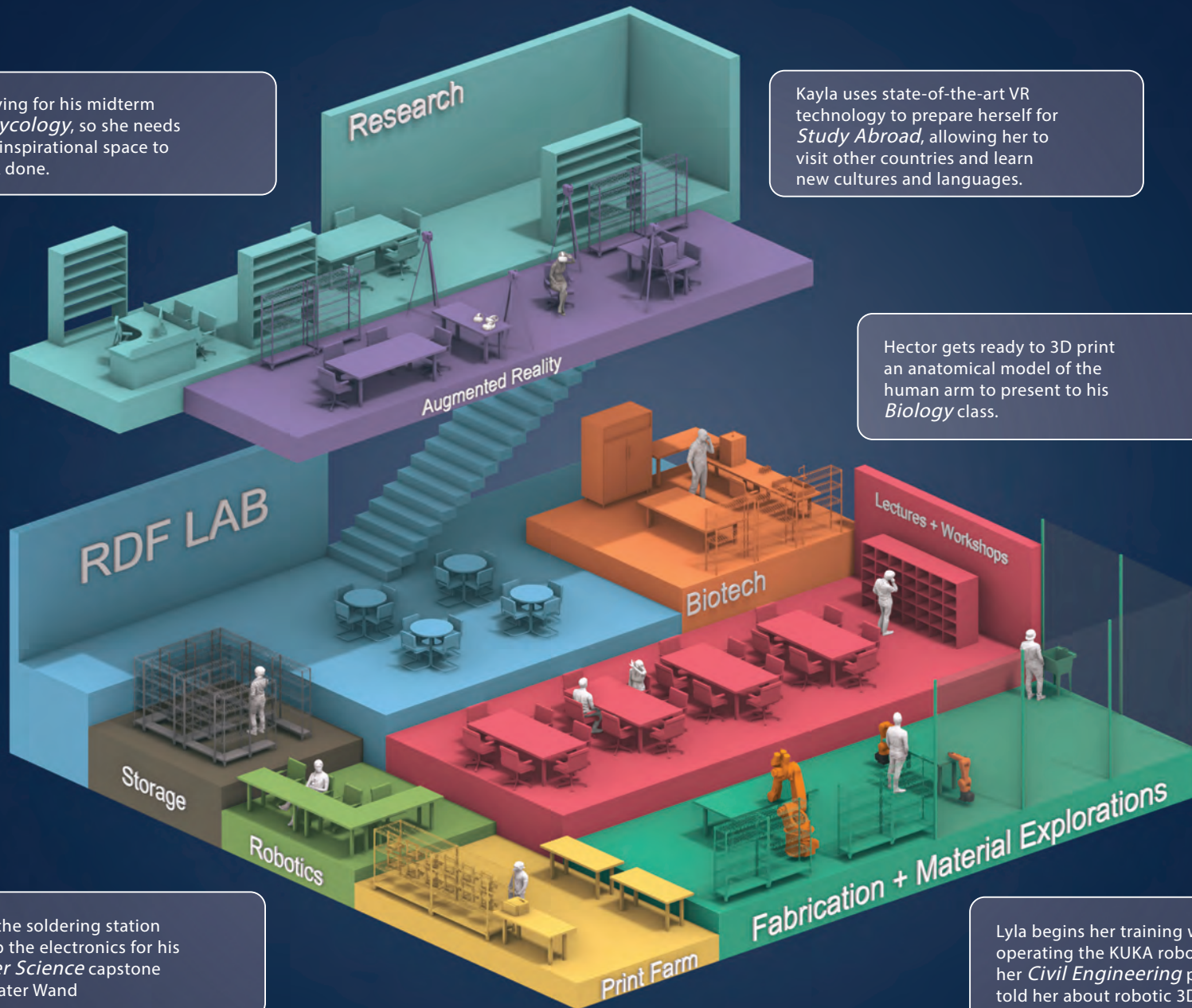
Alex is studying for his midterm exams in *Psychology*, so she needs a quiet, but inspirational space to get his work done.

Kayla uses state-of-the-art VR technology to prepare herself for *Study Abroad*, allowing her to visit other countries and learn new cultures and languages.

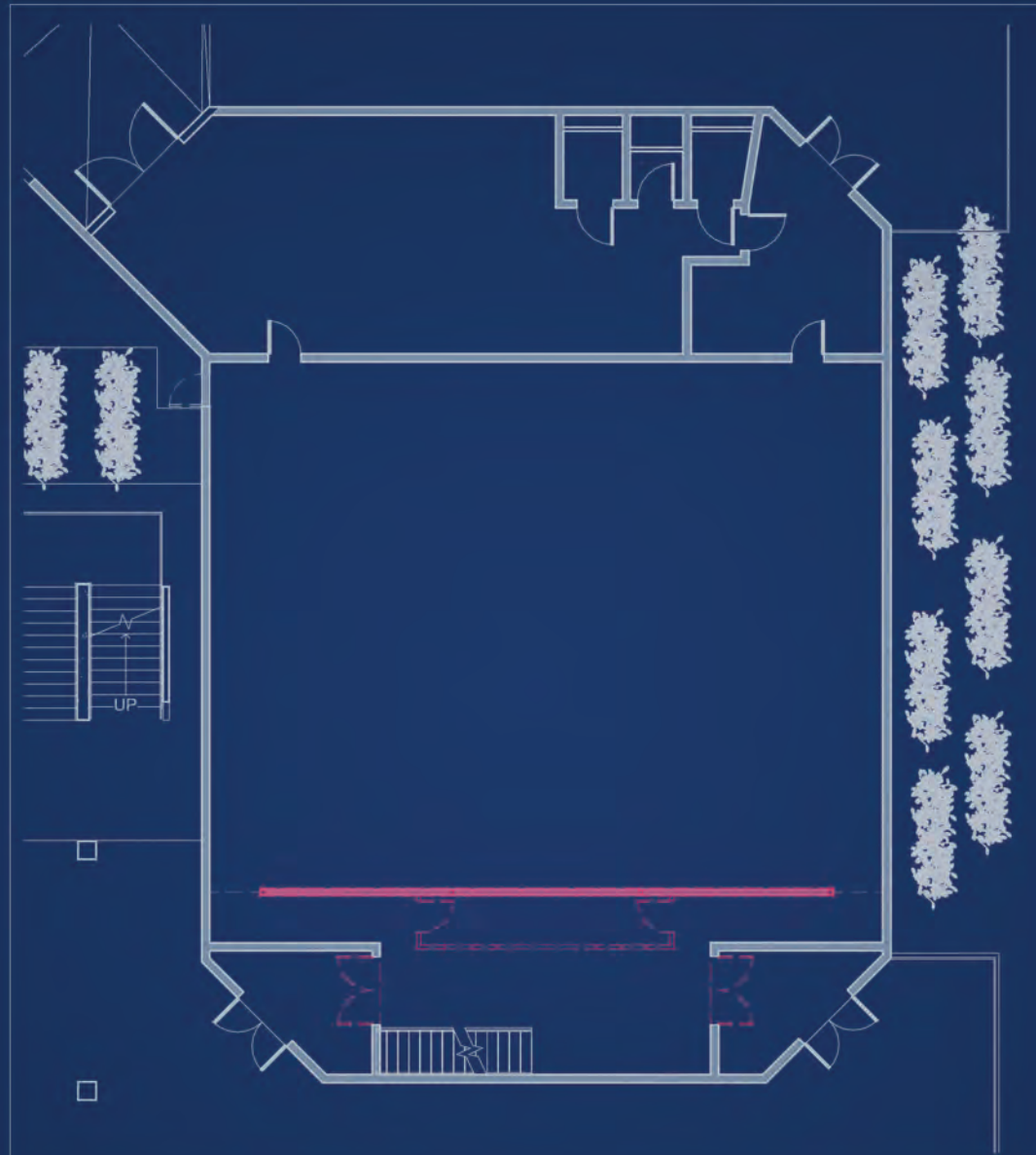
Hector gets ready to 3D print an anatomical model of the human arm to present to his *Biology* class.

Paul uses the soldering station to hook up the electronics for his *Computer Science* capstone project, Water Wand

Lyla begins her training with operating the KUKA robot after her *Civil Engineering* professor told her about robotic 3D printed concrete homes.



VH100 Existing / Demolition



ROBOTICS & DIGITAL FABRICATION LAB **RDF**

<https://carta.fiu.edu/roboticslab/>

FIU
FLORIDA
INTERNATIONAL
UNIVERSITY

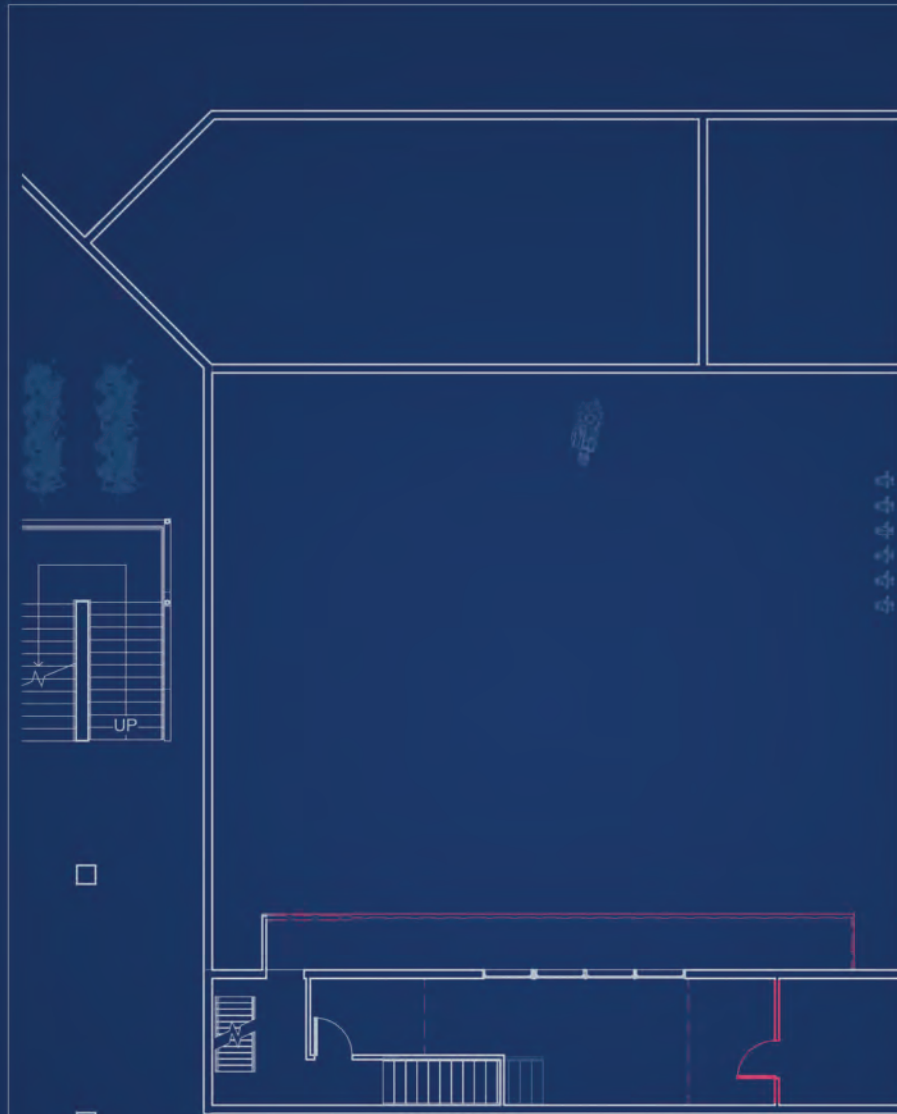
Ground Floor - Demolition

Project number	
Date	March 25th, 2024
Drawn by	Colin Mele
Checked by	

A102

Scale 3/32" = 1'-0"

VH100 Existing / Demolition



ROBOTICS & DIGITAL FABRICATION LAB **RDF**

<https://carta.fiu.edu/roboticslab//>

FIU
FLORIDA
INTERNATIONAL
UNIVERSITY

Second Floor - Demolition

Project number	
Date	March 25th, 2024
Drawn by	Colin Mele
Checked by	

A105

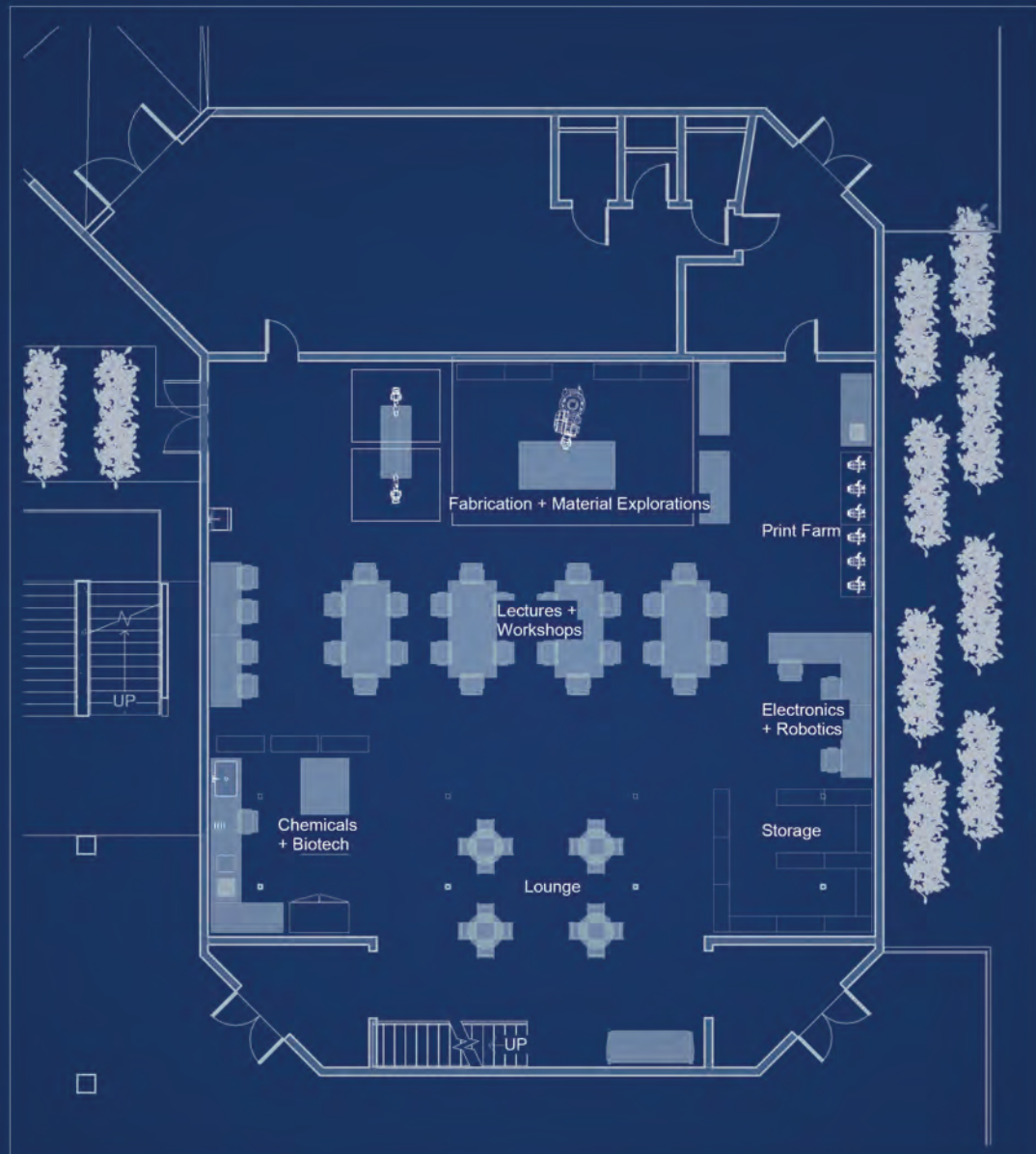
Scale 3/32" = 1'-0"

Ground Floor Proposed



Spaces:

- Fabrication + Material Exploration
- 3D Printing Farm
- Electronics and Robotics
- Chemicals and Bio-Tech
- AR/VR Environment
- Lectures and Workshops
- Student Lounge
- Storage



ROBOTICS & DIGITAL FABRICATION LAB **RDF**

<https://carta.fiu.edu/roboticslab/>

FIU
FLORIDA INTERNATIONAL UNIVERSITY

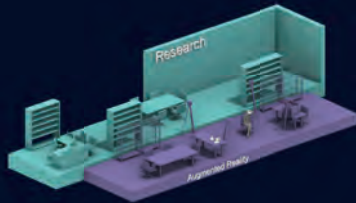
Ground Floor - Proposed

Project number	
Date	March 25th, 2024
Drawn by	Colin Mele
Checked by	

A103

Scale 3/32" = 1'-0"

Upper Floor Proposed



- Spaces:
- AR/VR Space
 - Independent Research Room



ROBOTICS & DIGITAL FABRICATION LAB RDF https://carta.fiu.edu/roboticslab/	FIU FLORIDA INTERNATIONAL UNIVERSITY	Second Floor - Proposed	
		Project number Date Drawn by Checked by	March 25th, 2024 Colin Mele Scale 3/32" = 1'-0"

Proposed exterior space for PCA 101
A student-driven project using robotic 3D printing.



Hardware Quotes

BioTech

01. AmScope T390 Compound Microscope
02. EUHOMY Mini Fridge
03. VEVOR Dehydrator
04. Analog Incubator
05. OMC Autoclave

Materials and Fabrication

06. 3D Potter Unit
07. Potter bot Super10 3D Clay Printer
08. HF 1818 Ceramic Kiln

Computer and Screens

09. VIBE Board S1 75" Interactive Scree
10. SAMSUNG 85" Wall Mounted Screen (x2)
11. ASUS ROG Strix G16 Laptop (x2)
12. Apple Desktops (x3)

Documentation Cameras and lights

13. Camera, Lights and Studio box

01

BioTech

AmScope T390 Series
Compound Microscope

\$508.99

Express checkout



OR

Contact

[Log in](#)

Email

Email me with news and offers

Delivery

Country/Region
United States



AmScope T390 Series Trinocular Compound
Microscope 40X-2000X Magnification With HD
Recording Camera \$508.99

Discount code or gift card

[Apply](#)

Subtotal **\$508.99**

Shipping Enter shipping address

Total USD **\$508.99**

02

BioTech

EUHOMY Mini Fridge

\$199.99

Shopping Cart

Deselect all items



EUHOMY Mini Fridge with Freezer, 3.2 Cu.Ft Compact Refrigerator with freezer, 2 Door Mini Fridge with freezer...

In Stock



FREE delivery Tue, Mar 26

Gift options not available. Learn more

Color: Silver

Qty: 1

Delete

Save for later

Compare with similar items

Share

Price

\$199.99

Save \$20.00

Clip Coupon

Subtotal (1 item): **\$199.99**

Proceed to checkout

Subtotal (1 item): **\$199.99**

<https://www.homedepot.com/p/VEVOR-Food-Dehydrator-Machine-w-10-Stainless-Steel-Trays-800-Watts-Silver-Food-Dryer-w-Adjustable-Temperature-FDA-Listed-SPF100548800WDQGIV1/326249173?source=shoppingads&locale=en-US&srsId=AfmBOoqJWovFRzL57p41sOhtzVt4brNE9xNdsB1IBP1eq8gjo9yYvd oiM1U>

03

BioTech

VEVOR Dehydrator

\$141.17



Your Delivery Cost: **FREE**



VEVOR

Food Dehydrator Machine w/10 Stainless Steel Trays, 800-Watts Silver Food Dryer w/Adjustable Temperature, FDA Listed

\$141.17

Model #SPF100548800WDQGIV1

Pickup at **Miami (Calle Ocho)**

Delivering to 33135



Ship to Store

Mar 22 - Mar 25
603 available

FREE

Delivery

Mar 22 - Mar 26
603 available

FREE

Your Order

Subtotal **\$141.17**

Delivery **FREE**

Sales Tax (determined in later step) ---

Total \$141.17

Have a Promo Code?

* Delivery fees are calculated at the lowest rate available. Other delivery options may be available in checkout.

Checkout

Or

<https://www.homedepot.com/p/VEVOR-Food-Dehydrator-Machine-w-10-Stainless-Steel-Trays-800-Watts-Silver-Food-Dryer-w-Adjustable-Temperature-FDA-Listed-SPF100548800WDQGIV1/326249173?source=shoppingads&locale=en-US&srsId=AfmBOoqJWovFRzL57p41sOhtzVt4brNE9xNdsB1IBP1eq8gjo9yYvdoiM1U>

04

BioTech

Analog Incubator

\$559.00

Order Summary

1 ITEM IN CART ^



Analog Incubator, Clearview, 0.7 Cubic Feet, 115 Volts **\$559.00**

Qty:

Cart Subtotal **\$559.00**

Shipping

Shipping Quote - Final shipping charges will be prepaid and added to your invoice.

Order Total **\$559.00**

https://www.medicus-health.com/microbiology/incubator-analog-clearview.html?gad_source=1&gclid=Cj0KCQjwwMqvBhCtARIsAIXsZpatsqNIM3-cUqhOtyWiqj2mhoxlZXtCQTLkXLcejLN3SGOPPXnB83caAtRD EALw_wcB

05

BioTech
OMC Autoclave
\$2,645.00

Product	Price	Quantity	Subtotal
  Pelton & Crane OCM Autoclave 7" x 14" Chamber	\$2,395.00	1	\$2,395.00

Cart totals

Subtotal	\$2,395.00
Shipping	UPS Ground: \$250.00 Shipping to FL. Change address
Total	\$2,645.00

<https://www.drstoystore.com/product/pelton-crane-ocm-autoclave/>

06

Materials and Fabrication

Elite and Road Runner and Cont. Mixer

\$64,500.00

3D Potter, Inc.

403 SE Monterey Road
 Stuart, FL 34994 US
 (772) 634-1726
 Zaneta@3DPotter.com
 www.3DPotter.com

Estimate

ADDRESS

Luis Pacheco
 Florida International University
 11200 SW 8th St.
 Miami, FL 33199

SHIP TO

Luis Pacheco
 Florida International
 University
 11200 SW 8th St.
 Miami, FL 33199

ESTIMATE # 2458**DATE 03/28/2024****EXPIRATION DATE 06/30/2024**

ACTIVITY	QTY	RATE	AMOUNT
ELITE & RoadRunner SCARA Elite V2 with no extruder RoadRunner system	1	45,500.00	45,500.00
CONT. MIXER Continuous Cement Mix Station shipping to be added or pick up possible	1	19,000.00	19,000.00
SUBTOTAL			64,500.00
TAX			0.00
TOTAL			\$64,500.00

Accepted By

Accepted Date

07

Materials and Fabrication

Potterbot Super 10 3D Clay Printer

\$8,050.00

YOUR CART

Subtotal
\$8,050.00

 CHECKOUT



3D POTTERBOT SUPER 10 3D CLAY PRINTER

Price \$8,050.00

Connection Type Ethernet (+ \$100)

Quantity
1

\$8,050.00



Enter a gift note or special delivery instructions below:

Special instructions

Subtotal

\$8,050.00

https://sculptfirepottery.com/products/3d-potter-3d-potterbot-super-10-3d-clay-printer?currency=USD&variant=47608051794204&utm_medium=cpc&utm_source=google&utm_campaign=Google%20Shopping&stkn=889648c74951&gad_source=1

08

Materials and Fabrication

HF 1818 Ceramic Kiln

\$2,232.00



Express checkout



OR

Contact

Email

Email me with news and offers



Evenheat HF 1818 Ceramic Kiln
RampMaster II / No Quiet Drive SSR

\$2,232.00

Discount code

Apply

Subtotal

\$2,232.00

Shipping

Enter shipping address

Total

USD **\$2,232.00**

https://potterypulse.com/products/evenheat-high-fire-series-1818-ceramic-kiln-personal-size?currency=USD&variant=46567947141416&utm_medium=cpc&utm_source=google&utm_campaign=Google%20Shopping&stkn=56c66c1f9afd&qad_source=1

09

Computers and Screens

VIBE Board S1 75" Interactive Screen

\$5,799.00

My cart (1 item)



Items in your order may be shipped separately. Check your email later for order status updates.



Vibe Board S1 75"

[Remove](#)

1 +

\$5,799.00

[Add accident protection for \\$279](#)

Order Summary

Enter Promo Code

Apply

Subtotal \$5,799.00

Shipping ⓘ Free

Tax ⓘ Calculated at checkout

Estimated total \$5,799.00

Starting at \$202/mo with [affirm](#). [See if you qualify.](#)

Checkout

10

Computers and Screens

SAMSUNG 85" Wall Mounted Screen (x2)

\$4,215.72



SANUS Elite - Advanced Tilt 4D TV Wall Mount for Most TVs 42"-90" up to 150lbs- Extends 6.8" for Easy Cable Access and Max Tilt - Black

Pickup at Dadeland

Ready for pickup in 1hr

FREE Shipping to 33101

Get it by tomorrow if you order within 3 hr 43 min
Same-Day Delivery is also available in checkout

2

Remove
Save

\$299.98
(\$149.99 each)



Samsung - 85" Class DU8000 Series Crystal UHD Smart Tizen TV

Pickup at Dadeland

Ready for pickup Fri, Apr 5

Available Sat, Mar 30 at a store 27 miles away
Will this fit in your car?

Delivery to 33101

Delivery as soon as Fri, Mar 29
Delivery + Installation as soon as Sat, Mar 30

2

Remove
Save

\$3,399.98
(\$1,699.99 each)

Protection Plans



Standard Geek Squad Protection
★★★★★ (25982)

See All Plans

Professional Services



Installation & setup services are available in 33101

See All Services



Insignia™ - 4' 4K Ultra HD HDMI Cable - Black

Pickup at Dadeland

Ready for pickup in 1hr

FREE Shipping to 33101

Get it by tomorrow if you order within 3 hr 43 min
Same-Day Delivery is also available in checkout

2

Remove
Save

\$39.98
(\$19.99 each)



Sanus - In-Wall Cable Concealer Recessed Power Kit for Mounted TVs - White

Pickup at Dadeland

Ready for pickup Thu, Apr 4

Available Today at a store 3 miles away

FREE Shipping to 33101

Get it by tomorrow if you order within 3 hr 43 min
Same-Day Delivery is also available in checkout

2

Remove
Save

\$199.98
(\$99.99 each)

Order Summary

Item Total	\$3,939.92
Store Pickup	FREE
Estimated Sales Tax	\$275.80
Total	\$4,215.72

11

Computers and Screens

ASUS ROG Strix G16 Laptop (x2)

\$5199.96

FIU Panther TECH
 11200 SW 8th Street, GC-165
 Miami FL 33199
 United States

Customer Information	Bill To	Deliver To
Customer ID: 84272 Name: Tech Fee : TF - College of Communication, Architecture + The Arts (CARTA) Contact: 74998 College of Communication, Architecture + The Arts (CARTA) : Luis A Pacheco Alcalá Phone: Email:		--STORE PICKUP GC-165-- 11200 Southwest 8th Street Miami FL 33199 United States

Date	Shipping Method	Created From
3/21/2024	Pick Up In Store / Software Digital Delivery	Sales Order #SO-55603

Quantity	Item	Description	Inv. Details	UPC	Options	Unit Price	Amount
2	G614JFXS96 ASUS ROG Strix G16 - 13th Gen i9/32/1TB SSD/RTX 4070,8GB - 1 YR Warranty	ASUS ROG Strix G16 - 13th Gen i9/32/1TB SSD/RTX 4070,8GB - 1 YR Warranty	R8NRKD00467632B R8NRKD00463832B			\$2,299.99	\$4,599.98
2	SWCCRAINTLAP4KAD36D Safeware Protection Plan for Institutional 3 Year Laptop - ESP +ADP - \$2000-\$3999	Safeware Protection Plan for Institutional 3 Year Laptop - ESP+ADP - \$2000-\$3999			Safeware Term: 3 Year Safeware Coverage: \$2,000-\$3,999 Safeware Coverageware Inst Product Types: Laptop Safeware Inst Coverage Type: Protection Plan with Accidental Damage from Handling	\$299.99	\$599.98

Subtotal	\$5,199.96
Tax Total (%)	\$0.00
Shipping Cost	\$0.00
Amount Due	\$200.00
Total	\$5,199.96

Printed Notes
 Amazon/Tech Fee pricing and availability are subject to change at any time.



I-220666

12

Computers & Screens

Apple Desktops (x3)
\$6638.28



Blue iMac

1 ▾

\$1,899.00

Pay 0% APR for 12 months:

\$158.25/mo.

[Show product details ▾](#)

[Remove](#)

AppleCare+ for iMac (M3)

\$169.00

Pay 0% APR for 12 months:

\$14.08/mo.

Automatically registered with your Apple hardware.

[Remove](#)

Order today. Delivers to [33131^{††} ▾](#)
Apr 16 - Apr 23 — Free

Order now. Pick up, in-store:
Ships to store. Available **Tue, Apr 23** at
[Apple Brickell City Centre](#)



Blue iMac

1 ▾

\$1,899.00

Pay 0% APR for 12 months:

\$158.25/mo.

[Show product details ▾](#)

[Remove](#)

AppleCare+ for iMac (M3)

\$169.00

Pay 0% APR for 12 months:

\$14.08/mo.

Automatically registered with your Apple hardware.

[Remove](#)

Order today. Delivers to [33131^{††} ▾](#)
Apr 16 - Apr 23 — Free

Order now. Pick up, in-store:
Ships to store. Available **Tue, Apr 23** at
[Apple Brickell City Centre](#)



Blue iMac

1 ▾

\$1,899.00

Pay 0% APR for 12 months:

\$158.25/mo.

[Show product details ▾](#)

[Remove](#)

AppleCare+ for iMac (M3)

\$169.00

Pay 0% APR for 12 months:

\$14.08/mo.

Automatically registered with your Apple hardware.

[Remove](#)

Order today. Delivers to [33131^{††} ▾](#)
Apr 16 - Apr 23 — Free

Order now. Pick up, in-store:
Ships to store. Available **Tue, Apr 23** at
[Apple Brickell City Centre](#)

Subtotal

\$6,204.00

Shipping

FREE

Estimated tax for: [33131^{††} ▾](#)

\$434.28

Total

\$6,638.28

[Get 3% Daily Cash with Apple Card](#)





13

Documentation Cameras

Camera, Light and Studio box

\$7122.48

Choose where to ship each item

Items	Qty	Send to	Ship to one address
 <p>GVM RGB LED Video Lighting Kit, 800D Studio Video Lights with Panel, APP Control for YouTube Photography Lighting, , 3200K-5600K, 8 Kinds of The Scene Lights, 3 Packs \$359.00 Condition: New Sold by: Lighting Deal USA Delete</p>	1	Ata Bayraktar, 1331 NW 3RD ST, DELRAY BEACH <small>To ship to additional addresses, increase the quantity.</small>	X
 <p>Photo Studio Light Box for Photography: Takerers 32x32 Inch 210 LED Large Lightbox for Product with 3 Stepless Dimming Light Panel, Professional Background Shooting Tent with 5 Color Backdrops \$119.99 Condition: New Sold by: Takerers Delete</p>	1	Ata Bayraktar, 1331 NW 3RD ST, DELRAY BEACH <small>To ship to additional addresses, increase the quantity.</small>	X
 <p>Sony Alpha 7R V Full-Frame Mirrorless Interchangeable Lens Camera \$3,898.00 Condition: New Sold by: Beach Camera Same Day Shipping Delete</p>	1	Ata Bayraktar, 1331 NW 3RD ST, DELRAY BEACH <small>To ship to additional addresses, increase the quantity.</small>	X
 <p>Sony FE 24-70mm F2.8 GM II Lens Black \$2,298.00 Condition: New Sold by: Focus Camera LLC Delete</p>	1	Ata Bayraktar, 1331 NW 3RD ST, DELRAY BEACH <small>To ship to additional addresses, increase the quantity.</small>	X

Use these addresses

Choose a shipping address to continue checking out. You'll still have a chance to review and edit your order before it's final.

Order Summary

Items (4):	\$6,674.99
Shipping & handling:	\$20.75
Free Shipping:	-\$13.76
Your Coupon Savings:	-\$25.00
Total before tax:	\$6,656.98
Estimated tax to be collected:*	\$465.50

Order total: \$7,122.48

[How are shipping costs calculated?](#)

14

Construction & Renovation

VH100: \$ 628,071.68

PCA 101: \$154,566.37

Total: \$782, 638.05

Facilities Construction Services

PRELIMINARY COST PROJECTION BASIC TEMPLATE

PROJECT: VH 100 RDF Lab

PROJECT NUMBER: FM-240211

March 4, 2024

PRELIMINARY DRAFT		
ITEM	DESCRIPTION	TOTAL
1	CONSTRUCTION COST (ESTIMATED)	\$450,000.00
2	SUBTOTAL CONSTRUCTION COMPONENTS	\$450,000.00
3	PROFESSIONAL SERVICES (A/E)	\$24,460.00
4	FIRE MARSHALL	\$1,125.00
5	SOIL & CONCRETE TESTING	\$5,500.00
6	ASBESTOS TESTING / ABATEMENT	\$10,000.00
7	UTILITIES LOCATION (GPR)	\$3,000.00
8	HVAC TEST AND BALANCE	\$2,500.00
9	PLAN REVIEW	\$8,000.00
10	BUILDING INSPECTIONS	\$16,000.00
11	TELECOMMUNICATIONS WIRING / EQUIPMENT	\$10,000.00
12	AUDIO VISUAL EQUIPMENT (NOT INCLUDED)	\$0.00
13	SECURITY CAMERAS (NOT INCLUDED)	\$0.00
14	BURGLAR ALARM (NOT INCLUDED)	\$0.00
15	OFFICE FURNITURE (NOT INCLUDED)	\$0.00
16	OFFICE EQUIPMENT (NOT INCLUDED)	\$0.00
17	KEY CONTROL	\$10,000.00
18	EXTERIOR SIGNAGE	\$1,600.00
19	INTERIOR SIGNAGE	\$1,600.00
	CONTINGENCY (10%)	\$54,378.50
	CSR (5%)	\$29,908.18
	TOTAL COST PROJECTION	\$628,071.68

2021 Edition

**PRELIMINARY COST PROJECTION
 BASIC TEMPLATE**

PROJECT: PCA 101 RDF

PROJECT NUMBER: FM- 240316

April 4, 2024



ITEM	DESCRIPTION	TOTAL
1	CONSTRUCTION COST (ESTIMATED)	\$86,500.00
2	SUBTOTAL CONSTRUCTION COMPONENTS	\$86,500.00
3	PROFESSIONAL SERVICES (A/E)	\$13,480.00
4	FIRE MARSHALL	\$216.25
5	SOIL & CONCRETE TESTING (N/A)	\$0.00
6	ASBESTOS TESTING / ABATEMENT (N/A)	\$0.00
7	UTILITIES LOCATION (GPR) (N/A)	\$0.00
8	HVAC TEST AND BALANCE	\$5,000.00
9	PLAN REVIEW (N/A)	\$0.00
10	BUILDING INSPECTIONS (N/A)	\$0.00
11	TELECOMMUNICATIONS WIRING / EQUIPMENT	\$1,000.00
12	HVAC CONTROLS	\$15,000.00
13	SECURITY CAMERAS (N/A)	\$0.00
14	BURGLAR ALARM (N/A)	\$0.00
15	OFFICE FURNITURE (N/A)	\$0.00
16	OFFICE EQUIPMENT (N/A)	\$0.00
17	KEY CONTROL (ADA ACCESS CONTROLS)	\$18,000.00
18	EXTERIOR SIGNAGE	\$500.00
19	INTERIOR SIGNAGE	\$500.00
	CONTINGENCY (5%)	\$7,009.81
	CSR (5%)	\$7,360.30
	TOTAL COST PROJECTION	\$154,566.37

2021 Edition

15

Furniture for New Space

\$56,675.19



(7) LARGE TABLES 4' X 8'



(7) SMALL 6'X2'-6" TABLES



(4) ROUND TABLES 36"D.



(58) CHAIRS

IMAGES FOR VISUAL PURPOSES ONLY. FINAL FINISHES AND OPTIONS MAY VARY AND MAY AFFECT THE PRICE. CUSTOMER MUST REVIEW PHYSICAL FINISH SAMPLES BEFORE PLACING THE ORDER



n:\FIU - Florida International University\UH -01 BUILDING\24-02740_ FIU - VH 100 Renovation\Empire CET\24-02740_ FIU - VH 100



COUNTERTOP CABINETS



(1) COUNTER HEIGHT ISLAND 4' X 8'



LOCKERS



(10)SHELVING UNITS

IMAGES FOR VISUAL PURPOSES ONLY. FINAL FINISHES AND OPTIONS MAY VARY AND MAY AFFECT THE PRICE. CUSTOMER MUST REVIEW PHYSICAL FINISH SAMPLES BEFORE PLACING THE ORDER



EMPIRE
OFFICE

MARC WOONTON

(954) 914-3287
mwoonton@empireoffice.com

2 Oakwood Blvd. Suite 140
Hollywood, FL 33020



EMPIREOFFICE.COM

HQ 654 MADISON AVE, FL 14
NEW YORK, NY 10065
212-607-5500

110 HILLCREST ST
ORLANDO, FL 32801
407-628-2400

2 OAKWOOD BLVD, STE 140
HOLLYWOOD, FL 33020
954-707-6200

1000 NEW COUNTY RD, UNIT A
SECAUCUS, NJ 07094

ACCOUNTING 396 ROUTE 6 & 209
MILFORD, PA 18337
212-607-5500

1000 N ASHLEY DR, STE 130
TAMPA, FL 33602
813-543-5050

Quotation - 429331

Quote Date - 03/26/24

Customer 111939

Terms - NET 30

Account Representative MARC
WOONTON

Quote Presented To

Procurement Services
FLORIDA INTL UNIVERSITY
11200 SW 8TH ST
Miami FL 33199-2516

Customer Ship To

Shahin Vassigh
FLORIDA INTL UNIVERSITY
11200 SW 8TH ST
Miami FL 33199-2516

Phone +1 (305) 348-2161

Phone +1 (305) 348-3032

BUDGET QUOTE

Quoted lead times are an estimate and are not guaranteed. Lead times are subject to changes beyond Empire's control and may be attributable to supply chain, transportation, production, etc. Should Empire learn of a delay, client shall be advised.

Description	Quantity	Unit Price	Extended Price
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CHAIRS

1	TS31201A - Shortcut-Chair, Multipurpose SHELL FINISH: PLASTIC - PG1 6009 - ARCTIC WHITE BASE FINISH: SMOOTH METALLIC 4799 - PLATINUM METALLIC CUSHION OPTION: WITH CUSHION CUSHION FINISH: FOUNDATION 5878 - SAILOR CASTER OR GLIDE TYPE: HARD CASTERS STEELCASE Tag For CHAIRS SHORTCUT	58	378.46	21,950.68
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Sub Total	21,950.68
Total	21,950.68

COUNTER HEIGHT ISLAND

2	65K193635CBOLL - ALTERNA, 18DX36WX35H, CABINET, BASE, OPEN, TFL ONE ADJUSTABLE SHELF DESIGNER WHITE KIMBALL OF Tag For COUNTER HEIGHT ISLAND 193635CBOLL	2	474.60	949.20
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3	65K1936WSRSS - ALTERNA, 19DX36W, SURFACE, SOLID	2	451.92	903.84
---	--	---	--------	--------

Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:

Peter Gaslow - President
Empire Office, Inc.

ACCEPTED BY: _____

TITLE: _____ DATE: _____

Description	Quantity	Unit Price	Extended Price
3 SURFACE STANDARD FLAT EDGE STANDARD GRADE DESIGNER WHITE KIMBALL OF Tag For COUNTER HEIGHT ISLAND 1936WSRSS			
4 65K243035CBH2LL - ALTERNA, 24DX30WX35H, CABINET, BASE, HINGED DOUBLE DOORS, TFL TRACE, PLATINUM METALLIC RDM CORE, NOT INSTL, SILVER CONCEALED HINGE \$0.00 ONE ADJUSTABLE SHELF DESIGNER WHITE DESIGNER WHITE KIMBALL OF Tag For COUNTER HEIGHT ISLAND 243035CBH2LL	4	679.56	2,718.24
5 65K2460WSRSS - ALTERNA, 24DX60W, SURFACE, SOLID SURFACE 2 - Catalogues STANDARD FLAT EDGE STANDARD GRADE DESIGNER WHITE KIMBALL OF Tag For COUNTER HEIGHT ISLAND 2460WSRSS	2	868.56	1,737.12
6 65K3604CFMLL - ALTERNA, 36WX4H, TOE KICK, TFL 2 - Catalogues DESIGNER WHITE NO MODIFIED WIDTH KIMBALL OF Tag For COUNTER HEIGHT ISLAND 3604CFMLL	2	40.32	80.64
7 65K6004CFMLL - ALTERNA, 60WX4H, TOE KICK, TFL DESIGNER WHITE NO MODIFIED WIDTH KIMBALL OF Tag For COUNTER HEIGHT ISLAND 6004CFMLL	2	53.34	106.68

Sub Total	6,495.72
Total	6,495.72

COUNTERTOP CABINETS

Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:


Peter Gaslow - President
Empire Office, Inc.

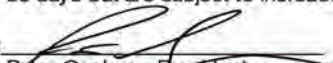
ACCEPTED BY: _____

TITLE: _____ DATE: _____

Description	Quantity	Unit Price	Extended Price
<p>8 65K193635CBH2LL - ALTERNA, 18DX36WX35H, CABINET, BASE, HINGED DOUBLE DOORS, TFL TRACE, PLATINUM METALLIC RDM CORE, NOT INSTL, SILVER CONCEALED HINGE ONE ADJUSTABLE SHELF DESIGNER WHITE DESIGNER WHITE KIMBALL OF</p> <p>Tag For COUNTERTOP CABINETS 193635CBH2LL</p>	5	643.44	3,217.20
<p>9 65K19108WSRL - ALTERNA, 19DX108W, SURFACE, LAMINATE 1/8" (3MM) VINYL RIM STANDARD .5MM EDGE DESIGNER WHITE DESIGNER WHITE NO MODIFIED WIDTH KIMBALL OF</p> <p>Tag For COUNTERTOP CABINETS 19108WSRL</p>	1	312.48	312.48
<p>10 65K1972WSRL - ALTERNA, 19DX72W, SURFACE, LAMINATE 1/8" (3MM) VINYL RIM STANDARD .5MM EDGE DESIGNER WHITE DESIGNER WHITE NO MODIFIED WIDTH KIMBALL OF</p> <p>Tag For COUNTERTOP CABINETS 1972WSRL</p>	1	221.34	221.34
<p>11 65K3604CFMLL - ALTERNA, 36WX4H, TOE KICK, TFL 1 - Catalogues DESIGNER WHITE NO MODIFIED WIDTH KIMBALL OF</p> <p>Tag For COUNTERTOP CABINETS 3604CFMLL</p>	1	40.32	40.32
<p>12 65K7204CFMLL - ALTERNA, 72WX4H, TOE KICK, TFL 2 - Catalogues DESIGNER WHITE NO MODIFIED WIDTH KIMBALL OF</p>	2	59.64	119.28

Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:


Peter Gaslow - President
Empire Office, Inc.

ACCEPTED BY: _____

TITLE: _____ DATE: _____

Description	Quantity	Unit Price	Extended Price
12 Tag For COUNERTOP CABINETS 7204CFMLL			
Sub Total			3,910.62
Total			3,910.62
LARGE TABLES			
13 <i>TS7WKSPT72</i> - Reinforcing channel, 72W STEELCASE Tag For LARGE TABLES RC/72	14	21.06	294.84
14 <i>BPL4</i> - Post leg, Package quantity 4, Glides, 28 1/2H LEGS: 4799 PLATINUM METALLIC STEELCASE Tag For LARGE TABLES PL	1	269.34	269.34
15 <i>BFRR4896</i> - Table-Rectangle, 48D x 96W EDGE: 6009 ARCTIC WHITE TOP-SURF: 2730 ARCTIC WHITE RFCHAN: *OPT:REINFORCING CHANNEL OPTION W RCHNL: WITH REINFORCING CHANNEL STEELCASE Tag For LARGE TABLES 48/96	7	559.19	3,914.33
Sub Total			4,478.51
Total			4,478.51
LOCKERS			
16 <i>SNGLKRD6</i> - WorkValet Locker Double Wide 6 Door SIZE OPTION: MODULAR DEPTH: 24.00000 WIDTH: 36.00000 HEIGHT: 54.12500 CASE FINISH: SOLID HPL 2730 - ARCTIC WHITE DOOR 1: WITH DOOR OPTION DOOR 2: WITH DOOR OPTION DOOR 3: WITH DOOR OPTION DOOR OPTION TYPE: DOOR HINGED LEFT HEADSET OPTION: RECESSED TOE KICK	3	1,640.80	4,922.40

Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:


Peter Gaslow - President
Empire Office, Inc.

ACCEPTED BY: _____

TITLE: _____ DATE: _____

Description	Quantity	Unit Price	Extended Price
16 HEADSET FINISH: SOLID HPL 2730 - ARCTIC WHITE LOCK OPTIONS: STANDARD KEY PLUG LOCK FINISH: POLISHED CHROME 9201 - POLISHED CHROME APPLICATION: NO NETWORK LOCK PULL: JAZZ PULL PULL FINISH: SMOOTH METALLIC 4799 - PLATINUM METALLIC ADJUSTABLE SHELF: NO ADJUSTABLE SHELF INTERIOR CONFIGURATION: PERSONAL SHELF NAME TAG: NO NAME TAG MAIL SLOT: NO MAIL SLOT PERSONAL SHELF FINISH: TEXTURED PAINT 7241 - ARCTIC WHITE SURROUND BACK PANEL: NO BACK PANEL STEELCASE			
Sub Total			4,922.40
Total			4,922.40

ROUND TABLES		
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17 TS4TBASE285 - Base, 28 dia base x 5 dia col BASE: 4799 PLATINUM METALLIC STEELCASE Tag For ROUND TABLES TB	4	442.41	1,769.64
18 TS4THDR36 - Top-Table, Round, 36 dia, 1 1/8 thick, High pressure laminate EDGE: 6009 ARCTIC WHITE TOP-SURF: 2730 ARCTIC WHITE STEELCASE Tag For ROUND TABLES 36	4	204.70	818.80
Sub Total			2,588.44
Total			2,588.44

SHELVING		
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19 WW3642BCOFM - WAVEWORKS,36WX42H BOOKCASE,OPEN, FREESTANDING,METAL PAINT GROUP:	10	514.92	5,149.20
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Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:


Peter Gaslow - President
Empire Office, Inc.

ACCEPTED BY: _____

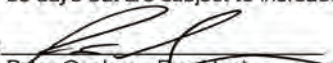
TITLE: _____ DATE: _____

Description	Quantity	Unit Price	Extended Price
19 STD: STANDARD, NON-METALLIC PAINT 405: DESIGNER WHITE KIMBALL OF Tag For SHELVING 3642BCOFM			
Sub Total			5,149.20
Total			5,149.20
SMALL TABLES			
20 TS7WKSPT60 - Reinforcing channel, 60W STEELCASE Tag For SMALL TABLES RC/60	1	21.06	21.06
21 BPL4C - Post leg, Package quantity 4, Casters, 28 1/2H LEGS: 4799 PLATINUM METALLIC STEELCASE Tag For SMALL TABLES PL	1	298.16	298.16
22 BFS3072 - Table-Straight, 30D x 71 3/4W EDGE: 6009 ARCTIC WHITE TOP-SURF: 2730 ARCTIC WHITE RFCHAN: *OPT:REINFORCING CHANNEL OPTION W RCHNL: WITH REINFORCING CHANNEL STEELCASE Tag For SMALL TABLES 30/72	7	237.20	1,660.40
Sub Total			1,979.62
Total			1,979.62
23 LABOR - LABOR TO RECEIVE DELIVER AND INSTALL STEELCASE	1	5,200.00	5,200.00
Quotation Totals			
Sub Total			56,675.19
Grand Total			56,675.19

End of Quotation

Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:


 Peter Gaslow - President
 Empire Office, Inc.

ACCEPTED BY: _____

TITLE: _____ DATE: _____

Empire Office, Inc. Standard Terms & Conditions of Sale

1. These Terms & Conditions are superseded by any contradictory terms and conditions included in a contract between Empire Office, Inc. ("Empire") and the client in effect at the time of purchase. If these Terms and Conditions are attached to an approved quote/order or if included on such a quote/order attached to any client issued purchase order, the parties shall be bound by these Terms and Conditions, irrespective of whether or not client accepts these Terms and Conditions by written acknowledgement, by implication, or acceptance and payment of goods and services ordered hereunder.
2. **Payment and Terms:** A deposit of 50% of the purchase price is required at the time an order is placed by Empire, 40% is payable on delivery, and 10% is payable after installation, unless different credit terms were agreed in writing between client and Empire. Empire's final invoice is due net 30 days from the completion date of delivery and installation. A service charge at the highest interest rate permitted by local law will be assessed on past due invoices, accruing on a daily basis from the invoice's original due date. In addition to the service charge, client shall pay legal fees incurred by Empire in connection with collection of past due invoices. If Empire is not permitted to deliver the furniture when it is received from manufacturer(s), the client will be invoiced for the full amount upon the earlier to occur of: (a) Empire's attempt to deliver the furniture; or (b) the date originally scheduled for delivery. Title to the product passes to the client only when the purchase price and all other charges hereunder have been paid in full, provided, however, risk of loss shall transfer to the client upon delivery of furniture. Client agrees that in the event of any default in payment, Empire, at its option, may repossess all of the product if such payment default is not cured within 30 days from its original due date.
3. **Tax:** Empire will add the appropriate sales tax on the invoice unless the client provides a valid sales tax exemption certificate.
4. **Client Orders:** Empire will process client orders after receipt of an executed copy of these Terms and Conditions, a client-signed valid quote or a client-signed valid purchase order, and completion of any Credit Department requirements for deposit or payment. Except for credit and payment terms, these Terms and Conditions will continue to apply to all subsequent orders, unless otherwise agreed in writing. Empire may modify credit and/or payment terms from time to time as necessary.
5. **Changes and Cancellations:** Upon Empire's order placement with its manufacturers, orders cannot be changed or cancelled without Empire's written consent. The costs of approved changes and/or cancellations are the responsibility of the client, including any design and administrative work performed by Empire to implement the changes as well as any charges incurred by Empire from its suppliers relating to such changes or cancellations. In addition to the charges mentioned herein, in case of cancellation, Empire shall charge client 17.5% of the quoted purchase price for Empire's overhead.
6. **Returns:** Product is not returnable unless it has been authorized by the manufacturer with the client bearing all costs including, but not limited to, freight, pickup, delivery, restocking plus 17.5% of the quoted purchase price for Empire's overhead.
7. **Delivery and Installation:** Empire is responsible for delivery and installation during normal working hours 8:00 AM and 4:00 PM, Monday through Friday, unless otherwise agreed in writing between client and Empire. Except as otherwise agreed in writing between client and Empire, the client will be responsible for overtime premium for work performed outside normal hours. The client is also responsible for required prevailing wage or union labor and related benefits to the extent they exceed non-union regular time rates. It is the responsibility of client to be present at time of installation/delivery, to acknowledge receipts and verify the condition of the product delivered. Client's failure to sign for receipt may result in either a redelivery via an additional trip by Empire, at an additional cost to client, or deemed acceptance of the delivery as to volume, condition, and specification. If client makes any changes to the delivery schedule within two business days of the scheduled delivery day, client shall be responsible for all direct costs associated with the cancelled delivery in addition to all costs associated with the rescheduled delivery. Any loss or damage of furniture stored at the client's location is the client's responsibility, regardless of the cause.
8. **Condition of Job Site:** The job site must be clean and free of all other trades and construction debris prior to installation, with sufficient electrical current, HVAC, elevator service and a secure staging area available during the course of the installation. The client is responsible for obtaining all permits and scheduling all elevators, elevator operators, security, hoisting, loading docks, power and any other building services needed. Failure to provide a job site in the proper condition may result in installation delays and/or additional charges, at Empire's sole discretion.
9. **Partial deliveries** can be made at the client's request or if conditions on site require them and will be subject to an additional charge.
10. **Storage:** Product quoted to be delivered to an Empire warehouse can be held without cost for up to 30 days. Any product that: (i) was quoted to be delivered to site and was redirected to an Empire warehouse, (ii) is owned by client and brought and held by Empire, or (iii) was quoted to be delivered to an Empire warehouse and held beyond 30 days due to reasons outside of Empire's control, will incur a storage fee calculated based on Empire's then current rate per square foot in the relevant location multiplied by the space occupied, billed to the client on a monthly basis.
11. **Warranties, Maintenance & Repair:** If Empire's performance is not in accordance with the specifications of the work or the executed quote and order, it should be noted on the Punch List to be provided to Empire by client within five (5) business days after the completion of installation by Empire. Damaged product will be modified to conform to the specifications of the order, or will be replaced. It is expressly understood that the entire invoice is due and payable, under the credit terms extended by Empire, regardless of the presence or extent of Punch List items. All claims for breach of product warranty, expressed or implied shall be made solely upon the manufacturer, it being agreed that Empire is not responsible for any such item. Empire will provide the necessary service to correct defects it caused or which are covered by the manufacturer's warranty (the terms of which vary by manufacturers) at standard pricing, unless otherwise agreed upon with client. Non-warranty repairs and maintenance will be performed at Empire's standard pricing. Client will be notified in advance if there will be a charge for a service. THE FOREGOING IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS, IMPLIED OR STATUTORY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH OTHER WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED BY EMPIRE. THE CLIENT ASSUMES ALL RISK OF LOSS RELATED TO ANY CLAIMS THAT THE PRODUCT AS INSTALLED BY EMPIRE DOES NOT COMPLY WITH ANY APPLICABLE LAWS, INCLUDING, WITHOUT LIMITATION, ANY AND ALL APPLICABLE CURRENT OR FUTURE LAWS REGARDING HEALTH AND SAFETY IN THE WORKPLACE.
12. **Use of Materials and Name:** Empire may list the project and client in its published lists of its clients and projects, including on its website. Empire may also use copies of images and videos of the project and related content for its portfolio purposes in connection with its marketing materials provided to prospective clients and other interested parties.
13. **Force Majeure.** Empire shall not be liable for any damages resulting from: any delay or failure of performance arising from any cause not reasonably within Empire's control, including, without limitation, accidents to, breakdowns or mechanical failure of machinery or equipment, however caused; strikes or other labor troubles, shortage of labor, transportation, raw materials, energy sources, or failure of usual means of supply; fire; flood; war, declared or undeclared; epidemics, pandemics, insurrection; riots; acts of God or the public enemy; or priorities, allocations or limitations or other acts required or requested by Federal, State or local governments or any of their sub-divisions, bureaus or agencies related to the foregoing or otherwise. Upon the occurrence of any of the foregoing, Empire may, at its option, (i) cancel the order subject to these Terms and Conditions or (ii) delay performance hereunder without penalty for any period reasonably necessary due to any of the foregoing, during which time these Terms and Conditions shall remain in full force and effect and may increase the purchase price hereunder by the amount of increased costs incurred by Empire due to any of the foregoing events, including, without limitation, any increased materials, supplies, services, labor or overhead.
14. **LIMITATION OF LIABILITY:** EMPIRE SHALL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWSOEVER CAUSED, INCLUDING BUT NOT LIMITED TO, ANY LOSS OF PROFITS, LOSS OF DEPOSITS OR ADVANCES PROVIDED BY CLIENT TO EMPIRE IF SUCH DEPOSITS WERE EXTENDED BY EMPIRE TO SUPPLIERS OR MANUFACTURERS WHO FAIL TO PERFORM PROPERLY AND COMPLETELY, LOST SAVINGS, PUNITIVE, EXEMPLARY, AGGRAVATED OR ECONOMIC DAMAGES, ARISING OUT OF THE PRODUCT OR SERVICES PROVIDED BY EMPIRE OR OTHERWISE RELATED TO THESE TERMS AND CONDITIONS, EVEN IF EMPIRE OR ANY OF ITS LAWFUL AGENTS, CONTRACTORS, EMPLOYEES OR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR CLAIM. IN NO CASE WILL EMPIRE'S TOTAL LIABILITY ARISING UNDER ANY CAUSE WHATSOEVER (INCLUDING WITHOUT LIMITATION BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, GROSS NEGLIGENCE OR OTHERWISE) BE GREATER THAN THE AMOUNT ACTUALLY PAID TO EMPIRE BY THE CLIENT FOR THE SPECIFIC PRODUCTS AND SERVICES PURCHASED BY THE CLIENT AND TO WHICH THE CLAIM RELATES.
15. **Indemnification:** Client agrees to release, indemnify, defend and hold Empire, its officers, agents, and employees harmless from any losses or claims of whatsoever kind or nature, including, without limitation, any deposits paid by Empire to any supplier, in each case, to the extent arising out of or incidental to Empire's performance of work hereunder, except to the extent caused by the gross negligence or willful misconduct of Empire.
16. **Design:** Client acknowledges that in the event the order includes design services, client is allowed one design change unless otherwise agreed in writing. Any subsequent changes not due to any act or omission of Empire will result in additional charges to client at Empire's rates for design services.

Prices will be held for 30 days but are subject to increase by manufacturer. Please be advised that this quote may not include applicable sales and use tax.

Quote authorized by:


Peter Gaslow - President
Empire Office, Inc.

ACCEPTED BY: _____

TITLE: _____

DATE: _____