**Blake Cobo**

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**EDUCATION**

**Mechanical Engineering, Honors College *August 2022 – Present***

**GPA:** 3.82

University of Florida, Gainesville, FL

**RESEARCH / DESIGN TEAMS**

***Machine Intelligence Lab (MIL) – Dr. Eric Schwartz January 2023 – Present***

* Worked on interdisciplinary teams to build an autonomous submarine for research and competitions
* Prototyped and 3D printed parts using Solidworks and FEA
* Designed submarine mechanisms including the gear-driven gripper for picking up objects in the water
* Presented on underwater computer vision techniques

***Neural Interface Research Lab – Dr. Jack Judy August 2023 – Present***

* Modeled electric potential in COMSOL while varying the design of implanted electrodes
* Produced data sets and graphs to find the optimal configuration/design of the electrodes

***Integrated Biophysics and Mechanobiology Lab* *–* Dr. Xin Tang *January 2023 – May 2023***

* Learned to interpret data and synthesize complex concepts and findings
* Analyzed cancer research to understand how proteins can interact with cancer tissue
* Presented research findings in a more concise and understandable fashion

**COLLEGE PROGRAMS**

***University Research Scholars Program (URSP) – Mentor August 2022 – Present***

* Invitation-only program for top 1% of applicants to the University of Florida
* Practicing and learning research methods and techniques for undergraduate research
* Mentor to new students in URSP

***Young Scholars Program (YSP) Summer 2021***

Florida State University, Tallahassee, FL

* Conducted research on Covid-19 variants and anticipated future impact of the Delta variant
* Learned Python and math problem-solving for famous algorithms and sequences

***Florida Youth Institute Summer 2020***

University of Florida, College of Agricultural and Life Sciences

* Discussed global food insecurity and ways to solve it using technology and science
* Met experts in the field who shared their unique perspectives

**SKILLS**

* **Languages**: Fluent in English; conversational Spanish
* **Coding Languages**: Java, Python, MATLAB, HTML, and CSS
* **Software:** COMSOL, Fusion 360, Jupyter Notebook, Excel, Microsoft Office
* **CAD:** Solidworks, Geometric Dimensioning and Tolerancing (GDT), Finite Element Analysis (FEA)
* **Manufacturing:** 3D Printing, CNC, Manual Machining, Soldering, Welding, Cable Potting

**AWARDS / CERTIFICATIONS**

* UF Dean’s List  **Fall 2022, Spring 2023**
* Solidworks Mechanical Design Certification **Spring 2023**
* UF Research Scholarship  ***2022***
* Florida Bright Futures Scholarship: Florida Academic Scholars ***2022***
* YSP Python Award ***2021***
* College Board National Hispanic Recognition Program ***2021***
* College Board AP Scholar with Distinction ***2021***
* Borlaug Scholar (World Food Prize) ***2020***

**MEMBERSHIPS**

* **UF Society of Hispanic Professional Engineers (SHPE)  *2022 – Present***
* **UF Student Honors Organization (SHO) *2022 – Present***