

Cristobal Gaviria

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EDUCATION

The University of Georgia

B.S Biological Engineering 2022 | B.S Civil Engineering Spring 2024 | HOPE Scholarship Recipient

PROJECT & ENGINEERING EXPERIENCE

Biodesign - Human Clinically Inspired Engineering Capstone Project

| CAD Drafting Lead |

Fall 2021-Spring 2022

- Designed an at home electrical device that mimics the Semmes Weinstein monofilament test
- Functioned as the main CAD drafter on the team
- Worked with other team members and advisors to meet standards and deadline

UGA Formula SAE

| Frame Design Member |

Fall 2019-Spring 2020

- Designed the skeleton of the car, complying with FSAE standards and regulation
- Functioned as the main creator of the engine bay area on a team of 6 designers
- Worked with other sub-teams to create a structure that would support all internalized components
- Designed the frame using SolidWorks and NX software

| Electronic Team Lead |

Fall 2018-Spring 2019

- Led a team of 10 people to innovate ways to get power from our battery to our car's engine in order to make it run at full capacity with all electronic components functioning properly
- Designed electrical components with a focus on space management within the car to maintain wire organization and ensure prime function

Third Arm

| Hackathon 3rd place |

Athens, GA | Fall 2018

- Designed a tool that helps veterinarians place screws during sacroiliac luxation (pet hip displacement surgery) without relying on their dexterity
- Competed against students from various departments in an interdisciplinary, university-wide contest to demonstrate the design function of increasing surgery success

WORK EXPERIENCE

Resident Assistant

| Myers Hall | Athens, GA |

August 2018 – October 2022

- Serve in a weekly on-call rotation, acting as a resource and ensuring the safety of approximately 960 first year students and responding to crisis situations
- Promote community, in collaboration with a team of 23 other Resident Assistants, by programming, building relationships, and educating students
- Directly support and mentor a hallway of 30 residents to act as a resource as they navigate the campus environment
- Enforce university policies, procedures, and regulations

CAMPUS/COMMUNITY INVOLVEMENT

| American Society of Civil Engineers | Athens, GA |

January 2022 – Present

- Participate as an active member by engaging in opportunities and attending meetings
- Network with other future professionals within the field

SKILLS

Technical: AutoCAD, Inventor, MATLAB, NX, SolidWorks, Fusion 360 Microsoft Word, Microsoft Excel

Coursework: Engineering Graphics and Design, Computational Engineering Methods, Statics, Strength and Materials, Thermodynamics, Heat Transfer, Fluid Mechanics, Soil Mechanics, Civil Materials