Andrew Grant
Mechanical Engineer (Robotics/Automation)
Email: agrant70@gatech.edu | Phone:(225) 200-0238 | Location: Atlanta, Georgia

Profile

I am an undergraduate mechanical engineering student at Georgia Tech with a passion for robotics, automation, digital manufacturing, and software engineering. My focus is on using engineering concepts to enhance the safety and efficiency of everyday tasks. I am actively seeking opportunities that allow me to delve deep into problem-solving, acquire new skills, and create the out of the box solution.

Education

Georgia Institue of Technology, Mechanical Engineering BS. . . . . *In Progress*
Zachary High School, Diploma . . . . *May 2022*

Experience

Air Force Research Lab / Arctos, Robotics Engineer
May 2023 - August 2023
- Innovatively designed and deployed a realistic 3D simulated robotic environment.
- Provided Substantial enhancements in physics-based simulated motion precision and efficiency.
- Collaborated seamlessly with a multidisciplinary team, including postdocs, to optomize robotic computer vision systems.
- Successfully achieved critical project milestones for the Materials and Manufacturing branch of the Air Force Research Lab.

Georgia Tech Information Technology, IT Technician
November 2022 - Present
Rotational role in the Georgia Tech Office of Information Technology:
- Enterprise Service Desk, Rotation 1
  - Analyzed and resolved software issues while developing innovative problem-solving methods.
- Community Technical Services, Rotation 2
  - Maintained hardware and provided guidance to users on the use of complex systems.
- Departmental Computing Support, Rotation 3
  - Gained foundational training on equipment life cycles, incident triaging, and Tier 2 desktop support.
- Infrastructure Operations, Rotation 4
  - Tasked with troubleshooting campus technology issues, finding viable solutions, and implementing solutions.

The Me Company, Co-Founder
August 2022 - Present
- Utilize 3D design software to design cost-effective, attractive, and functional consumer ready products.
- Research and develop digital manufacturing techniques to enhance the effiencey of product production
- Improve the PLM of products to sustain our development of current and future products
- Stratigize new cutting edge features to provide steady revisions to current products

South Sites, Founder
July 2020 - Present
- Established and operated a successful web development business that caters to local businesses.
- Guide clients through ideation to a fully functioning websites using design, programming, and communication skills

US Army JROTC Bronco Battalion , Lead Software Developer
May 2021 - Present
- *Act as the remote Software Developer and IT Consultant for the Bronco Battalion*
- *Designed, developed, and deployed the Bronco Battalion web application currently reaching 2,000 users.*

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Skills

- Robot Operating System (ROS2)
- 3D Modeling
- Simulation and Environment Development
- Product Prototyping
- Linux Development
- Design Thinking (Completed Human-Centered Design Course at MIT)
- Collaborative Problem Solving and Teamwork
- Project Management and Milestone Achievement (TLPS)
- Programming Languages: Python, HTML, CSS, PHP, JS

Strengths

- Ideation
- Effective Communication
- Individualization
- Woo (Winning Others Over)
- Relatable

Honors

MIT MITES Scholar
June 2021 - December 2021
- Participated in a rigorous STEM program with six months of personal development and two months of MIT coursework, including award-winning projects and publications.

Georigia Tech Challange Scholar
June 2022 - July 2022
- Member of the Challenge program at Georgia Tech, dedicated to growth and professional development of students.

Published, Best of MIT Online Science Technology Engineering Community
July 2021
- Authored and published an article on the state of affordable bionic prosthetic limbs.

Department of Defense, Superior Cadet Award
April 2022
- Recognized with the second-highest Department of the Army medal exclusively for Reserve Officers' Training Corps cadets.

National American Legion Award Recipient
May 2021
- *Acknowledged for outstanding leadership.*

Current Projects

Orginization Management Web Application
- Creating a club management system tailored for schools, churches, and organizations.

Funnel Anaylytics Software
- Developing an integrated software and hardware solution to enhance recruiting efficiency.

Autonmous 6 - Axis Robot Assistant
- Designing and prototyping an autonomous assistant with six degrees of freedom.

E-Bike Saftey Embeded Sensor System
- Designing an embded computer vision and sensor system for improved E-bike safety.