


AMITH POLINENI

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 Bristow, Virginia

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WORK OBJECTIVE

I'm interested in using my knowledge in mechanical design and programming to work on a large-scale project this summer. I'm interested in learning tremendously through hard work.

DATES OF AVAILABILITY

Summer 2023: June 19th - August 18th

EXPERIENCE

Robotics Research Assistant

George Mason University

June 2022 – August 2022

- Help undergraduate and graduate students research, construct, and test their robotics research projects.
- Design mechanical components with CAD software and run simulations before construction.
- Program microcontrollers to control actuators and sensors.

EXTRACURRICULARS

- **Arboroot** – *Co-founder & CTO* – A startup manufacturing autonomous greenhouses to enable people to grow fresh food, year-round, in their backyard.
- **Team Tiny House** – *Co-president* – Designing and constructing a sustainable tiny home with the latest technology to prove cheap sustainable living is possible.
- **Assistive Technology Club** – *Co-president* – making accessible devices and software for elementary-age children with various disabilities.
- **Botball Robotics** – *Co-captain* – Engineering two fully autonomous robots for international competition. Robots are robustly built using simple parts and coded in C.
- **Ethics Bowl** – Using ethical frameworks to find the objective moral answer to complicated situations. Complements mechatronics



EDUCATION

Junior in High School @
Thomas Jefferson High School
for Science and Technology

Plan to major in mechatronics
engineering for college.

KEY SKILLS

- Programming in Java, Python, C++, C, HTML, CSS, and JavaScript
- Node JS, Flask, Django, and SQL (Web Development)
- Licenced HAM Radio Operator
- Mechatronics: mechanical + electrical + programming
- Basic Local Networking and communication protocols
- UI/UX Design for Websites
- Microelectronics (Arduino, Raspberry Pi) & Soldering
- Computer-Aided Design (CAD)