

Arjun Mahal
Mechanical Engineer
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EDUCATION

University of Maryland - College Park

August 2017 - May 2021

B.S., Mechanical Engineering
Engineering Fraternity Theta Tau
GPA: 3.53

University of Carlos III

December - May 2020

Semester Abroad in Madrid, Spain
Studying Mechanical Engineering and Spanish

TECHNICAL EXPERIENCE

Siemens Industry Automation Specialist

August 2021 - Present

- Create operational code to automate commercial building HVAC systems
- Installed over 100 products such as valve motors, damper actuators and control panels
- Implement various sensors to monitor the energy output of a Net Zero Commercial Building

Amazon Operations Area Manager Internship

June - July 2020

- Managed over 300 associates at a sorting center
- Oversaw the inbound and processing of over 120,000 packages a day
- Conducted research of over 85 packages to determine the time efficiency of various package routes

Automatic Plant Watering System

December 2019

- Designed a mechatronic device involving sensing, actuation and a visual output
- Implemented 2 servo motors, a pump, an ultrasonic sensor and a thermistor into the design
- Wrote Arduino code to activate watering at a certain temperature or time

Center for Environmental Energy Research Internship

June - August 2019

- Planned and constructed a structural base for an internal/external flow heat transfer system
- 3D printed a watertight tube connection for internal sensor placement
- Spot welded and calibrated over 100 thermopiles

LEADERSHIP

Over Sand Vehicle Project

January - May 2018

- Elected team leader in charge of constructing an autonomous all-terrain vehicle
- Designed and constructed the electrical circuit controlling 5 motors and 3 sensors
- Consisted of 4 DC motors, 1 servo motor, 2 ultrasonic sensors and a pH sensor

Eagle Scout Award

January 2016 - January 2017

- Organized and led the construction of 6 flowerbeds, 2 composting bins, and 6 butterfly houses for a local elementary school's outdoor classroom

TECHNICAL SKILLS & HOBBIES

Proficient: SolidWorks, Autodesk Inventor, Creo Parametrics, Microsoft Word, Excel, PowerPoint

Semi-Proficient: Matlab, C++, Arduino

Hobbies & Interests: Real Estate, 3D Printing, Basketball, Golf