Hritish Bhargava
hritish.bhargava@uconn.edu | 203.812.9848 | www.linkedin.com/hritishbhargava/

Education

University of Connecticut, Storrs, CT
Bachelor of Science in Engineering, Engineering Physics (conc. Electrical Engineering), May 2024

Engineering Project Experience

University of Hartford Student Researcher, Hartford, CT
Electrical Lead; August 2023 - Present
- Designing the electrical infrastructure for a 3' bipedal robot.
- Developing a dynamic walking gait algorithm in Python and C++ and calculating kinematics for the whole system.

6 DOF Robotic Arm, Shelton, CT
Creator; December 2022 - May 2023
- Used Solidworks to create a small 6 degree of freedom robotic arm to move a water bottle using inverse kinematics.
- Designed CAN Bus connectors in KiCAD along with Stepper Motor Controllers.
- Used an Arduino to run the software with a detached control center for various functions such as "return to home" and e-stop.

Space Tech & Radio Electronics Club, Storrs, CT
Founder; January 2022 - December 2022
- Used schematics to solder and assemble a small payload for launch on a NASA Sounding Rocket into the Ionosphere to conduct radiation testing with a geiger counter.

NASA Big Idea Challenge (1/7 Finalists), Storrs, CT
Mechanical Team Lead; October 2021 - July 2022, August, 2022 - November 2022
- Led the design and build of the rover and the mechanics using Fusion 360 & Solidworks and PCBA board design in KiCAD.
- Led the design and build of a 6' by 13.5' Sandbox to test the rover in different conditions based on angle.
- Worked with a team of 25 engineering, design, and research students to build a unique rover to represent UConn as 1/7 teams accepted into the NASA Big Idea Challenge and was one of the presenters at the final in JPL.

Mechanical Engineering Intern; July 2022 - August 2022
- Produced over 20 prototypes of the actuator module through 3D printing and metal fabrication.

NASA Proposal Writing and Evaluation Experience Academy (NPWEE) & Mission Concept Academy, Virtual
Academy Student; January 2022 - April 2022; May 2022 - August 2022
- Created a component combining Silica and Aerogel to act as a form of noise mitigation between systems aboard the ISS and astronauts in Siemens NX and Solidworks.
- Designed a small rover capable of exploring a cave on Mars in Siemens NX and Fusion 360 and designed the electrical system in SPICE.

Work Experience

EJ Electric Installation Co., Wallingford, CT
Assistant Project Manager (APM); June 2023 - Present
- Developing AI Integration and data analysis techniques to reduce costs and increase efficiency using Python and SQL.
- Estimate and bid various large scale ($1M+) electrical transmission and distribution projects across NY, CT, and MA.
- Contribute to Engineering designs for small scale distribution projects.

Stamford Startup Studio, Stamford, CT
Project Management Intern; August 2021 - December 2021
- Led the remake of a retail space in Stamford using SiteScape Pro and Revit by adding features such as a mezzanine, spiral staircases, cafe, seating area, and a retail space.
- Used Unity 3D to recreate the CAD in a VR/AR environment to show stakeholders.

Technical Skills:

Autodesk Inventor, Fusion 360, Solidworks, MATLAB, LabVIEW, PSpice, Arduino, Python, RockSIM, LogicWorks, Microsoft Office, Soldering, KiCAD, Proposal Writing