

ANEESH SONI

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I am a Senior in Mechanical Engineering willing to work hard and apply the experience I have gained over the past 4 years in a full-time opportunity starting in the Summer/Fall of 2021.

EDUCATION

PURDUE UNIVERSITY, IN Summer 2021
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
MINOR IN MANAGEMENT
GPA: **3.7/4.0**
Dean's List and Semester Honors Fall 2017 - Present

Relevant **Engineering and Management Coursework:**
Calculus, Machine Design, Thermodynamics, Mechanics of Materials, Fluid Dynamics, Electronic Circuit Design, Systems and Controls; Financial and Managerial Accounting, Principles of Marketing, Statistics, Operations Management

WORK EXPERIENCE

TEACHING ASSISTANT – SYSTEMS, MEASUREMENTS & CONTROLS
PURDUE UNIVERSITY, IN Spring 2020

- Co-hosted two labs every other week for over 35 students; and assisted everyone with various tasks in LabView and NI MyRio
- Instructed students on topics ranging from System Identification to Frequency Analysis, etc.

MECHANICAL ENGINEERING INTERN
FORD MOTOR COMPANY, INDIA Summer 2019

- Gained first-hand experience in welding, extruding, drilling, and various mechanical processes by working in the machine shop
- Undertook a project which redesigned the EcoSport to have a smaller and lighter chassis with a team of engineers through SolidWorks and small-scale prototyping
- Communicated with the other teams and exchanged results and findings

SKILLS

- Software:** CAD (Solidworks, CATIA, Inventor), C, MATLAB, Python (Numpy, Pandas, Scipy, SKlearn), SAP ERP, C++, LabView, Office 365, 3D Printing (Slic3r) and G-code Manipulation
- Manufacturing Processes:** Drilling, Waterjet Cutting, Extrusion, Lathing, Milling, Gantry Routers

RESEARCH EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT
PURDUE UNIVERSITY, IN Spring 2020 - Present

- Designing and prototyping a device that takes the location on a tabletop as input with other imaging parameters
- It then manipulates a mobile camera to take images at a specified location with a given level of precision
- Constructed device will be an important part of a research test bed for studying traceability

DESIGN PROJECTS

PRINTEROOSKI (Name Subject to Change) (Current)
PERSONAL PROJECT Fall 2020 – Present

- Designed the frame for the 3D printer in Solidworks
- Currently integrating an Arduino Mega and a Ramps Controller to control the printer
- Targeting to finish the project by the end of the year

LABVIEW SHEEPDOG LINE FOLLOWER ROBOT (Current)
PURDUE UNIVERSITY Fall 2020 – Present

- Currently assembling components of a specialized sheepdog robot kit
- Future goals involve remotely guiding the robot using a PI controller along a path

FODO (Foot Operated Door Opener)
PURDUE UNIVERSITY Spring 2019

- Designed two working prototypes over the course of the semester
- Researched the problem, wrote memorandums, and financially analyzed the project
- Demonstrated efforts as a team through a constructed prototype and presentation

ACTIVITIES & HOBBIES

PHI SIGMA PI NATIONAL HONORS SOCIETY Fall 2019
ASME (Handcar Design Team) Fall 2018
AMERICAN RED CROSS CLUB Fall 2018
In my free time, I love playing with my dog!