

JORGEN WU

152 Riverwatch Drive, Pittsburgh, PA 15238 | 4127158465 | wu1283@purdue.edu | U.S. Citizen

OBJECTIVE

Creative problem solver and innovative thinker with hands on experience in CAD, additive manufacturing, and prototyping looking to expand varied skillset and tackle challenging problems in an engineering internship.

EDUCATION

PURDUE UNIVERSITY, WEST LAFAYETTE, IN DEC 2021

- B.S. Mechanical Engineering – GPA 3.85/4.0
- Recipient of Emerson B.A. Purcell Memorial Scholarship, 2018-Present

FOX CHAPEL AREA HIGH SCHOOL, PITTSBURGH, PA JUNE 2018

- Graduated with Honors – GPA 4.19/4.0

EXPERIENCE

UNDERGRAD RESEARCHER, PURDUE ENGINEERING – Hydraulic Trainer SPRING 2021

- Utilized SolidWorks FEA to design gantry frame and determine stresses and deformation
- Designed control system, selected sensors and actuators according to project requirements
- Compiled weekly progress reports, presented key findings to project supervisor

UNDERGRAD RESEARCHER, PURDUE ENGINEERING – 3D Printer Controller SUMMER 2020

- Created novel control algorithm for LCD and SLA 3D printers for improved efficiency and compatibility
- Utilized industry standard tools to program FPGA controllers and test outcomes in a simulated environment
- Managed creation and delivery of executable testing software to reduce development cost

INTERN, GECKO ROBOTICS SUMMER 2019

- Designed, optimized, and manufactured parts with complex geometry using SolidWorks and Cura
- Redesigned workspaces to improve ergonomics, productivity, and worker safety

PROJECTS

G.E.A.R.S., PURDUE UNIVERSITY JAN – APRIL 2019

- Developed navigation and mapping algorithms for autonomous search and rescue robot prototype
- Implemented PID control to aid in autonomous disaster zone navigation
- Developed team management skills by coordinating and managing team efforts with real-world tools

MARS CARGO ROVER, PURDUE UNIVERSITY SEPT– DEC 2018

- Designed prototype to autonomously traverse rough terrain while avoiding obstacles and delivering cargo
- Wrote autonomous navigation software with sensory data driven decision-making capabilities

SOCCER ROBOTS, CARNEGIE MELLON UNIVERSITY JUNE – AUG 2017

- Modified educational robots to mesh communicate and play soccer through autonomous path finding
- Added Bluetooth capabilities and wrote software and libraries needed to integrate hardware packages
- Implemented computer vision and path generation algorithms as part of autonomous control software

SKILLS

SolidWorks, CATIA, CREO
Additive Manufacturing
Linear Circuit Design
Engineering Design

Python, MATLAB, Java, C
NI LabVIEW
Fabrication
Team Management

Microsoft Office
FPGA, Microcontroller Use
Interpersonal Communication
Proficient in Two Languages