Christopher J. Golden

cgolden.page | (937) 825-3070 | golden.327@osu.edu | 1065 Nutt Rd. Dayton, OH 45458

Objective: Seeking an engineering internship for Summer 2021 before beginning graduate school in Autumn 2021.

Education:

The Ohio State University (OSU) | Columbus, OH *May 2021*
Bachelor of Science: Mechanical Engineering Minor: Music
Overall GPA: 3.71; Major GPA: 3.78 Dean's List: Fall 17, Fall 18 – Fall 20

Skills:

Programming Skills: MATLAB/Simulink, Arduino (C/C++), LabVIEW, Python, Java
Software Skills: SolidWorks, AutoCAD, EES, Ansys, Raspberry Pi, MS Office
Technical Skills: GD&T, Machining, Drafting, CNC, 3D Printing, Soldering, Circuitry, Hazmat

Work Experience:

OSU | Teaching Assistant | Introduction to Design in Mechanical Engineering *Aug 2019 – Present*
- Assists students in programming Arduino code, constructing circuits, and utilizing an oscilloscope
- Grades student's lab reports, holds weekly office hours, and teaches essential debugging skills

Garmin International | Cancelled internship due to the Covid-19 Pandemic *Summer 2020*

Battelle | Providence, RI | CCDS Decontamination Technician *June 2020 – Aug 2020*
- Decontaminated N95 masks using vaporized H_2O_2 (VHP) during the Covid-19 pandemic
- Calibrated VHP monitoring devices, ensured safety of team members and enforced SOPs (S&H Officer)
- Trained new team members on decontamination procedures (S&H Officer)

Air Force Research Laboratory (AFRL/RQQM) | Wright-Patterson Air Force Base, OH
Pathways Engineering Intern *May 2019 – Aug 2019*
- Modeled thermal components in SolidWorks and simulated components in Ansys
- Designed miniaturized vapor compression system and assembled portions of a refrigeration system including adding an accumulator, thermocouples, and safety components
- Modeled two-phase pumped refrigeration system in Engineering Equation Solver (EES)

Pathways Engineering Intern *May 2018 – Aug 2018*
- Researched and programmed a two-phase flow control algorithm in a pumped refrigeration system
- Analyzed experimental data in MS Excel and MATLAB

Project Experience:

Assistive Devices Capstone *Aug 2020 – Present*
- Designing a glove for physical therapists to quantify forces exerted during manual therapy
- Collaborating on a diverse team of biomedical, mechanical, and electrical engineers, with a PT advisor

High Powered Rocket Launch *April 2019*
- Built and launched a rocket approximately 2500 ft and recovered rocket; Simulated rocket in RockSim

Arduino Rocket Telemetry System *February 2019*
- Designed a data acquisition and control system for a model rocket using an Arduino microcontroller

Certifications:

Certified SolidWorks Associate in Mechanical Design (CSWA) *December 2020*
Tripoli Rocketry Association Level 1 High Powered Certification *April 2019*

Leadership Experience:

Safety and Health (S&H) Officer, Battelle Critical Care Decontamination System (CCDS) *July 2020 – Aug 2020*
Treasurer, The Ohio State University Symphonic Band *Dec 2018 – Aug 2019*

Interests: Buckeye Philharmonic Orchestra, Buckeye Space Launch Initiative, Students for Refugees, photography, running, intramural sports, climbing, bass, piano lessons, music writing and recording