

# Conor Snyder

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US Citizen



## EDUCATION

**Georgia Institute of Technology,  
Bachelor of Science in Mechanical Engineering**

**Atlanta, Georgia**  
*August 2017 – May 2021*

- GPA: 3.61
- Concentration in Automation and Robotic Systems
- Graduated with Highest Honor

## EXPERIENCE

**Multi-Dimensional Integration**

**Various Locations**

**Controls Engineer**

*May 2021 – Present*

- Commissioned Dematic hardware and implemented PLC programming solutions at Amazon fulfillment center
- Wrote and Performed AIQ and AOQ's on OEM pharmaceutical equipment, adhering to GMP standards
- Communicated with customers to provide optimal controls solution for their individual business needs
- Authored and revised pharmaceutical technical documents to fit changing needs as projects progressed

**Pratt and Whitney**

**Middletown, CT**

**Manufacturing Engineering Intern**

*May – August 2019*

- Performed root cause and corrective analysis to find solutions for manufacturing defects on Integrally Bladed Rotors
- Implemented new automated inspection process, reducing human labor time from about 8 hours to about 1 hour
- Wrote Excel macros to automate inspection data recording and remove error associated with manual data entry
- Aided in pre and post processing for large parts undergoing blue light inspection

**Underwriters Laboratories: Research Teardown Laboratory**

**Atlanta, GA**

**Mechanical Engineering Intern**

*May – August 2020*

- Conducted teardown and failure analysis inspection on and wrote technical reports for over 425 individual items
- Frequently developed effective business solutions for problems experienced at the retail level
- Earned "Intern of the Quarter" award

## PROJECTS

**Design and Control of Furuta Pendulum System**

*Spring 2021*

- Designed and constructed electromechanical system to balance inverted pendulum at the end of a rotating arm
- Developed kinematic model and simulated a control system using state space pole placement methods
- Programmed multi-output control algorithm in C++ to balance inverted pendulum with acceptable disturbance rejection

**Capstone Design – In-Situ Pulsed UV Irradiation Testbench**

*Spring 2021*

- Collaborated with interdisciplinary team to design a testbench for UV irradiation in hemodialysis scenario
- Served as financial manager and ensured sourcing of components was within budget constraints

**Balance Plate System**

*Spring 2020*

- Designed a mechatronic system to balance a metal ball on a glass plate that tilts to control the position of the ball
- Used SolidWorks to iterate and plan the design before 3D printing the final versions of the system
- Used an Arduino Uno microcontroller to gather sensor data and control 2 servo motors
- Designed a PID loop in C++ meant to control the tilt of the plate and the position of the ball

**Robotics Competition**

*Spring 2019*

- Designed and built a robot to complete a series of tasks in a competition setting
- Developed a program in LabVIEW to enable the robot to run autonomously
- Used laser cutters, 3D printers, and turning and milling machinery to construct various iterations in the design

## SKILLS / INTERESTS

**Concepts:** Industrial Controls, Microcontrollers, Mechatronics, Control Theory, Machine Design

**Manufacturing Experience:** PLC's, HMI's, GMP, 5S, GD&T, Lathe, Mill, 3D Printer, Laser Cutter

**Programs:** Studio5000, RSLinx, Factory Talk Studio, AssetCentre, MATLAB, Simulink, VBA, LabVIEW, C/C++, Python

**CAD:** SolidWorks, Autodesk Inventor

## LEADERSHIP

**Tutoring:** Tutored another student in Physics, providing help with homework and helping review for exams in remote setting

**Sigma Alpha Epsilon Fraternity:** Served on scholarship, new member, brotherhood, and house maintenance committees