Daniella Donn

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Objective

Seeking full-time position beginning Summer 2023 as a Mechanical/Manufacturing/Automation and Robotics Engineer. Have experience with Automation and Robotics, Programming, C.A.D. and C.A.D. Drawings.

Education

Rochester Institute of Technology - Rochester, New York

Bachelors of Science - Mechanical Engineering Technology - Expected Graduation: May 2023

GPA: 3.0 - Dean's List: Fall 2020, Fall 2021

Coursework Done: Mechanical Analysis and Design, Robotics and Automation, Fluid Mechanics, Thermal Fluid Power, Manufacturing Processes, Machine Tools Lab, Design Dimensioning & Tolerancing, Applied Finite Element Analysis

Current Coursework: Thermal Fluids Project, Intro to Digital Micro Systems, Automation Controls Systems

Employment

Jabil - Manufacturing Engineering CO-OP   (July 2022 – January 2023)

Worked with computer vision by self-teaching python on a raspberry pi, optimized a probing program run by a CNC Mill using G-code, designed trays through Creo for operators to easily identify an inspected part, created a machine and cell locator by self-teaching excel visual basic and utilized machine learning to train a tab detection software.

Acuity Polymers - Mechanical Engineer   (February 2021 - August 2021)

Created contact lenses and buttons (contact lens templates) using a CNC lathe, designed manufacturing plans for contact lenses, and helped design an automatic system for cast molding.

Projects

Probe Detection - Jabil   (August 2022 – October 2022)

Optimizing a probing program with G-code to measure a slot on parts, prevent oversized threaded holes and over tolerance material going into the CNC Mill, and create alarms for operators to investigate errors.

Tab Detection - Jabil   (July 2022 – January 2023)

Using computer vision with python on a raspberry pi to create a tab detector which scans a finished machined part and detects tabs that have not been buffed. Currently implementing and validating the software for machine use.

Automatic Disk Launcher   (January 2022 - May 2022)

Group project - Created an automatic disk launcher that shoots a disk at a target. Group of 4 oversaw all steps of design and manufacturing utilizing Solid-Works to design the launcher. Responsible for calculating for a specific motor and output power and wire diagrams.

Screwdriver Assembly Design   (March 2019 - April 2019)

Group Project - Used SolidWorks to design and model a multipart, portable screwdriver. Responsible for assembling the screwdriver, modeling 3 out of the 9 main components, and creating the final drawings of components.

Skills and Certifications

CAD: Solidworks, Creo

Programming: Python, RoboGuide, Robostudio, MATLAB, Excel Visual Basic, PLC Programming

Engineering Software: Mastercam, Autodesk Fusion 360, FEA, Automation Studio, EES, Studio 5000, Quartus Primer

Statistics: Rstudio, JMP

Certifications: FANUC CERT HandlingTool Operations and Programming, SIX SIGMA GREEN BELT