

# Daniella Donn

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## Objective

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

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

## Employment

### Jabil - Manufacturing Engineering CO-OP

(July 2022 - Present)

Working with computer vision by self teaching python on a raspberry pi, optimizing a probing program run by a CNC Mill using G-code, designing trays through Creo for operators to easily identify an inspected part, and utilizing machine learning to train a tab detection.

### 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 - Present)

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.

### Mastercam Block - Jabil

(October 2022 - Present)

Learning Mastercam to create toolpaths for a modeled block with a variety of holes, shapes, and cuts. Installing tool path program on a CNC Mill to test.

### Tab Detection - Jabil

(July 2022 - Present)

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

**Engineering Software:** Mastercam, Autodesk Fusion 360, FEA, Automation Studio, EES

**Statistics:** Rstudio, JMP

**Certifications:** FANUC CERT Handling Tool Operations and Programming, SIX SIGMA GREEN BELT