

Bobby Conley

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Education

NEW JERSEY INSTITUTE OF TECHNOLOGY

Manufacturing Engineering Technology, 3.42

Newark, NJ

January 2023

Relevant Coursework: Drone Science, Mission Planner, Software in Loop, Robotics & Programming Logic Control with Siemens and Fanuc 6 DOF Arm, Python, Visual Basic Net, Manufacturing Process Design, Manual and CNC Machining.

APPLIED MECHANICAL ENGINEERING MCVSD VOCATIONAL

Technical Diploma

Eatontown, NJ

May 2019

- Located at Festo Didactic learned automation hardware. Became certified in use of Autodesk Inventor CAD.
- Interpreted and built from schematics consisting of valves, cylinders, motors, switches, buttons in both pneumatics and hydraulics. Learned Festo electro-pneumatic plc. Certified in OSHA 10 Hour Safety Training.

OCEAN TWP HIGH SCHOOL

Ocean Twp, NJ, May 2018

- Developed robots for Panasonic Creative Design Challenges with my Robotics Team from 2016 to 2018.
- Participated in Steam Tank Challenge, proposing a hybrid aerial and ground-based drone as well as developed a prototype that travelled to waypoints on the ground via Ardupilot and Mission Planner Software.

Experience

MALLETECH INC

Engineering Intern

Neptune, NJ

June 2021 – August 2021

- Manufactured batches of parts on Manual Lathe. Deburred batches of parts on buffing wheel.
- Upgraded shelves of parts and bins with labelling for supporting 5s Lean system. Arranged bins on shelves for minimizing time to pick parts for assembly.
- Compiled formatted documentation for assembly, packaging and shipping information with MS Office.
- Monitored inventory of raw materials, and parts via notepad to report quantities to purchase to the purchasing department. Prepared carts and collected parts kits for whole instruments to be then ready for assembly.

KRELLTECH

Engineering Technician

Neptune, NJ

Feb 2018 – Jan 2020

- Assembled Fiber Optic Polishers mechanically and electrically. Created various wire harnesses of varying gauge wire types to serve as data or power functions. Studied wiring diagrams, schematics, and machine's wirings to create top quality machines for end user. Performed soldering of wire connections with soldering iron and heat shrink wire protection.
- Monitored inventory of parts and materials and reported items in need of ordering based on part count required in each assembly.

Leadership & Activities

BUSINESS AND TECHNOLOGY OCEAN TWP SCHOOL DISTRICT

Program Counselor

Ocean Twp, NJ

May 2018 – August 2018

- Motivated 8th grade students entering 9th grade about the possibilities to make anything with 3d printing additive manufacturing, laser cutting, Arduino, and both Lego and Tetrix robotics in H.S Makerspace.

Skills & Interests

Technical Skills: 3D Printing and Cura printing software, Cad modelling using: SolidWorks, Autodesk Inventor, Fusion 360, Creo Parametric, NTopology. Flying and building FPV Racing Drones. Simulation in FluidSIM and Solidworks. Programming Arduino, Esp32, Esp8266, Raspberry Pi, Nvidia Jetson Nano. Gcode lathe and mill, Python, PyQt5, QT Designer, Html, CSS.

Interests: Robotics, Automation, Autonomous unmanned aerial, sea and ground vehicles, Advanced Manufacturing.