Dakota Richline

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Skills _____

Linux (2016-present) Desktop and servers: Podman, package maintenance, LaTeX, git, bash/fish

Amateur Radio (2017-present) Amateur satellites/ISS, RTL-SDR, digital modes (FT8, SSTV, DMR), basic antenna and station setup

Programming Some experience with scientific computing; mostly MATLAB with some Julia and Python

Electronics Soldering, ESP32/Arduino capstone project with basic sensors

Precision machining (2017-2023) CNC turning/milling, GCode, metrology/quality control, CAD/CAM modeling, 3D printing

Education

B.S. Aerospace Engineering with Astronautics Emphasis

Melbourne, FL

2020 - 2024

FLORIDA INSTITUTE OF TECHNOLOGY

• GPA: 3.59, Credits: 133

Relevant Coursework:

- Space Vehicle Control and Dynamics (MATLAB)
 Programmable satellite dynamics simulator, 3D coordinate transformations, quaternions, PID controller
- Control Systems (MATLAB)
 Classical control theory, PID controls, state-space representation, system dynamics, Laplace transforms
- Aerospace Computational Techniques (MATLAB)
 Numeric methods theory and analysis, scientific programming, linear algebra and differential equations
- Computer-Aided Engineering (Simulink, ANSYS)
 Dynamics simulation and analysis, structural simulations, finite-element analysis
- Orbital Mechanics (Julia, Python) Scientific computing
- Systems Engineer, EduSat Team ESP32, electrical power system, basic sensors

Work Experience _____

LIVE FREE ARMORY

EXACTECH INC

CNC Machinist Melbourne, FL

Machined and inspected firearm components

May 2023 – August 2023

Manufacturing Engineering Intern

Sarasota, FL

May 2022 - August 2022

• Machined titanium and polyethylene medical implants

- Metrological and quality analysis of implants and surgical instruments
- Set up, adjusted, and programmed Mori NLX Turning Machines

CNC Machinist Sarasota, FL

Machined titanium medical implants

- EXACTECH INC

 May 2021 August 2021
 - Measurement and quality control
 - Set up and adjusted Swiss lathes
 - Complied with standard operating procedures

CNC Operator Bethlehem, PA

JENKINS MACHINE INC September 2019 – July 2020

- Set up machines and ran production parts
- Finished surfaces and performed media blasting
- Modelled parts in Solidworks
- Edited gcode

Information Technology Intern

Northampton PA

June 2019 – August 2019

NORTHAMPTON AREA HIGH SCHOOL

- Two years repairing machines at the IT helpdesk
- Provisioned, repaired, and maintained computer equipment for the school district