# Paul R. Lowe

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#### Education

# University of Vermont, College of Engineering and Mathematical Sciences Bachelor of Science in Electrical Engineering - GPA: 3.35

 Courses: Digital Fundamentals, Electronics I & II, Linear Circuit Analysis I & II, Statistics for Engineers, Electromagnetic Field Theory, Signals and Systems, Microcontroller Systems, Control Systems, Communication Systems, Sensors, Wireless Communications, Evolutionary Robotics

Awards/Scholarships: Vermont Society of Engineers, Vermont Space Grant

#### Technical Skills

- Lab Tools: Oscilloscopes, Spectrum Analyzers, Waveform Generators, DC Power Supplies, Multimeters
- Software: VS Code, Solidworks, Altium Designer, PSpice, LABView, KiCAD, Microsoft Suite
- Programming Skills: Git, Python, SQL, Java, C, C++, VBA, HTML, AHK
- Additional Skills: Raspberry Pi, Arduino, SMT Soldering, 3D Printing, Linux (Arch + Debian), Power Tools

#### Relevant Experience

# Med Associates - Electro-Mechanical Technician - Georgia, VT

June 2023 - Present

Graduation: May 2019

- Designed electro-mechanical test equipment including PCBA's and 3D printed fixtures
- Implemented software automation (Python, VBA, SQL, AHK) to company-wide ERP system
- Diagnosed and repaired medical equipment for neuroscience applications
- Identified systemic manufacturing improvements through PCBA rework and data analysis
- Performed onsite equipment installations and delivered customer support services
- Acted as production department trainer, developing assembly procedures giving work instruction
- Implemented directory structure builder for schematics+firmware with batch scripting

# Teknor Apex Company - Process Engineering Intern - St. Albans, VT

May 2018 - August 2018

- Implemented ASTM standards to TPE production, reducing variation in hardness and viscosity
- Compiled data logs from Capillary Rheometer using Visual Basic for statistical model creation
- Proposed and implemented extrusion molds for testing and adjusted operator procedure for efficiency
- Investigated split feeding polypropylene to reduce hardness variation within product runs

#### Teknor Apex Company - R&D Laboratory Intern - St. Albans, VT

May 2017 - August 2017

- Conducted statistical analysis on developmental compounds to evaluate their properties
- Presented findings, analysis and suggestions to company leadership based on research with TPE's

#### Project Experience

# Track Assisted Cart (Senior Design Project) - Built By Newport - UVM

September 2018 - May 2019

- Managed client interactions and logistical matters
- Designed control system, PCB, and charging station
- Coordinated project resources and timelines

# Additional Experience

# Town & Country Homes, Inc. - Project Associate - Vergennes, VT

December 2022 - March 2023

- Constructed homes from design-layout in Vermont's growing modular home market
- Facilitated communication with company ownership to address project challenges

Fellowship of Catholic University Students - Missionary - NJ, PA, ME, GA, MA

May 2019 - October 2022

- Developed startup university programs with a small team
- Oversaw numerous mission-partner relationships and coordinated a variety of multi-campus events