

Paul R. Lowe

Essex Junction, VT | 802.393.5398 | p@prlowe.com | linkedin.com/in/prlowe | prlowe.com

Relevant Experience

Nanya Technology - Physical Design Engineer - Williston, VT *August 2025 - Present*

- Designed layout of digital and analog circuits throughout all hierarchies of DDRX and LPDDRX chips
- Utilized design tools to debug logic, meet design requirements and improve parasitics
- Employed TCL scripting to be adopted by various team members, expediting design process
- Collaborated with design and verification departments during RTL to tape-out process
- Exercised proficiency in LVS, DRC, auto-placement tools, and designed custom navigation tools

Med Associates - Electro-Mechanical Technician - Georgia, VT *June 2023 - July 2025*

- Designed electro-mechanical test equipment including PCBA's and 3D printed fixtures
- Implemented software automation (Python, VBA, SQL, AHK) to company-wide ERP system
- Acted as production department trainer, developing assembly procedures giving work instruction
- Implemented extensible documentation framework 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

Technical Skills

- Scripting: TCL, Bash, Python
- Software: Custom Compiler, P Spice, Linux Distributions (Arch, MATE, Debian, Artix), Windows (All)
- Additional: Raspberry Pi, Arduino, SMT Soldering, 3D Printing, Power Tools

Education

University of Vermont, College of Engineering and Mathematical Sciences *Graduation: May 2019*

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

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