Paul-Elliot Foy

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EDUCATION

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, BLACKSBURG, VA

- Bachelor of Science, Mechanical Engineering, **GPA 3.9** (Graduated May 2025)

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER – Python, Flutter, Dart, Astro, PostgreSQL   2015-Present

- Founded Time Squeeze: A Scalable Business-to-Business Time Tracking Software as a Service (SaaS).
- Developed and Selling Open-Source Graphical Windows Subsystem for Linux (GWSL) XServer for Windows Subsystem for Linux.
- Launched Time Squeeze, GWSL, and OpenInWSL programs on the Microsoft Store **(180,000+ Customers)** and providing customer service.
- Managing systems in Amazon AWS (S3, Lambda, Pinpoint), Supabase, and Firebase.
- Ensuring scalability, redundancy, and frequent backups.
- Used enterprise virtualization/containerization software and maintain 5+ websites.

ENGINEERING PROJECTS

- Work with Ansys FEA, SolidWorks, Excel, Siemens NX (with additive manufacturing), and MATLAB.
- Designing and building magnetic centrifugal pump gearing for year-long mechanical engineering capstone team project with Flowserve (served as project manager) (2024-2025).
- Experienced mechanical design lab testing tensile strength with Instron and GOM, fatigue, etc. (2023).
- Learned and practiced welding – GMAW, Stick, MIG, TIG (Steel and Aluminum).
- Remanufactured Freezer and Vehicle AC condenser fans. Replaced starter motors, window regulators, and headliners (2022-2024).
- Diagnosed and repaired 30-year-old freezer, 30-year-old gas oven, dishwasher, and dryer (2022-2024).
- Replaced 70-year-old underground hot-water and sewage plumbing (2019-2024).
- Conceptualized, designed, and built polycarbonate-walled 400 sq-ft workshop (2023).
- Worked with team to design and construct 20-ft ramp for stroke victim (2024).
- Designed, built and flew remote controlled model aircraft and model rockets (2019-2023).
- Developed fundamental research, learning, data analysis, and debugging skills.

OTHER ACTIVITIES

- Volunteer for an hour weekly at local nonprofit organization (13 years). Compose music (9 years). Play Classical Guitar (7 years). Explored 20+ national parks. Video Editing.
- Designed and developed Open-Source Music Making Software (2018-2021).
- Served four years of spring break service trips - construction, maintenance, food pantry volunteering, and miscellaneous manual labor (2022-2024).

AWARDS

- SAE Heinz C. Prechter Automotive Excellence Merit Scholarship (2021-2022).
- Raymond and Shirley Lynn Mechanical Engineering Merit Scholarship (2023-2024).
- G Gordon Light Scholarship, Benjamin & Hilda Partlow Scholarship, William Potts Dr. & Jr Scholarship, Gilbert L & Lucille C Seay Scholarship (totaling $23,240).
- Christendom College President's Merit Scholarship (2019-2020).