T. M. Prevo

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Skills

Back End: Python, VBA, Google Cloud Platform (GCP), SQL query fundamentals, generative AI (APIs, LangChain), R
Front End: HTML/CSS, Next.js (React), Streamlit, JavaScript, TypeScript
Tools: Jira, Git, Documentation Control, Notion, Tableau, MATLab, 3D CAD (Solidworks, Pro Creo, NX)
Logic: Applied Differential Equations, Linear Algebra, Advanced Statistics, Statistical Data Analysis, Research & Development, Design of Experiments, Ability to learn any new tech stack in < 10 weeks

Relevant Experience

Embedded Software Engineer II, Daimler – Remote in Portland, OR — Feb 2021 – May 2024

- Led Gateway ECU software development initiatives across 4 global teams, 130 microcontrollers, and 11 networks, establishing robust documentation processes and technical requirements while coordinating between internal and external stakeholders with competing priorities
- Navigated and extracted critical data from multiple enterprise database systems (including legacy COBOL, IBM DB2, and proprietary databases) to support vehicle programming requirements across 50 years of manufacturing data
- Reduced daily Custom Work Orders by 80% by automating processes to consolidate and validate data
- Created comprehensive technical reports by synthesizing data from multiple sources using visualization tools (SQL, Tableau, Power BI) to drive decision-making across engineering teams
- Developed automated test scripts in CAPL (Communication Access Programming Language) and performed network trace analysis to validate vehicle software variables and support the Product Validation Engineering Team

Engineering Intern, IRPI & NASA Ames – Remote in Portland, OR — Jun 2020 – Sept 2020

- Identify and report bugs in beta computational fluid modeling software by comparing outputs to numerical calculations of capillary free surface configurations

Engineering Intern, Daimler – Portland, OR — Jun 2019 – Aug 2019

- Developed software in VBA, SQL, and Python for specific business use-cases which alleviated workload by 38 engineering hours per month in the Third Party Powertrain division (Engine & Transmission ECU programming)

Propulsion Engineering Intern, NASA – Huntsville, AL — Jun 2016 – Aug 2016

- Cleaned and regressed complex magnetic vibrational dataset containing over 280 million multi-parameter measurements, validating theoretical models

Technical Support Representative, Netflix – Hillsboro, OR — Feb 2011 – Dec 2014

- Developed & presented a communication training that cut dissatisfaction rates by 40% over 1 month and lowered Make-Good compensation by 5% center-wide
- Consistently ranked in the top 10 of 1,000 employees according to rigorous performance metrics

Education

Maseeh College of Engr. & C.S. – BS Mechanical Engineering, Latin Honors [3.88] — June 2020
Genesee High School – Diploma with Honors [3.92] — June 2008

Select Awards

1st Place in Engineering Division at NASA Intern Symposium (now Patent #11,098,817), 2016. Bravo! Awards at Daimler (ADAS Team Management 2024, Product Validation Engineering 2023, Direct Manager 2023). NASA UTEAP Grant 2014, 2020. Daimler Mechatronics Scholar, 2018. Maseeh President's List, 2017 – 2020. Certificates of Academic Excellence from PCC College President and Board, 2014, 2015, 2016. "Top 10" Students, 2008. Excellence in Biology, 2008. Excellence in Directing, 2008. Certificate of Scholarship (High Achievement), 2004.