

# Joel Malissa

Side Projects: <https://pamvo.com>

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<b>CLEARANCE</b>	<b>Secret Clearance, Active</b>	2022 – Present
<b>EDUCATION</b>	<b>University of Pennsylvania</b> – School of Engineering and Applied Science, Philadelphia, PA Master of Science in Engineering   Mech. Eng.   GPA 3.60/4.00 Bachelor of Science in Engineering   Physics & Mech. Eng.   GPA 3.13/4.00 <b>Pennsbury High School</b> – Fairless Hills, PA Class rank: 1/833	May 2018 August 2015
<b>TECHNICAL SKILLS</b>	<b>Programming Languages:</b> Python/PySpark, SQL, MATLAB <b>Software:</b> Palantir Foundry (Workshop, Pipeline Builder, Ontology Management App/OMA, Carbon, and Code Repositories), Power BI, AWS (Lambda, S3, and CloudFront), Mathematica	
<b>CERTIFICATIONS</b>	Palantir Foundry Application Developer Palantir Foundry Data Engineer Palantir Foundry Foundations Microsoft Certified: Power BI Data Analyst Associate Microsoft Certified: Power Platform App Maker Associate Microsoft Certified: Power Automate RPA Developer Associate	June 2023 June 2023 May 2023 April 2022 December 2023 October 2022
<b>PROFESSIONAL EXPERIENCE</b>	<b>Deloitte</b> , Arlington, VA <b>Senior Consultant</b>	March 2025 – Present
	<b>Guidehouse</b> , Arlington, VA <b>Senior Consultant</b> <ul style="list-style-type: none"><li>Created data pipelines and dashboards in Vantage, Palantir’s Army platform</li><li>Built 28 (of the team’s 42) dashboards for a Vantage project with approximately 2,000 average monthly users as of March 2025</li><li>Learned Department of Defense data systems to collaboratively design client tools</li><li>Automated data reports to enable faster and more reliable data-driven decisions</li><li>Contributed solutions to Palantir’s Developer Community: <a href="https://community.palantir.com/u/dev/summary">https://community.palantir.com/u/dev/summary</a> (requires making an account)</li></ul>	November 2022 – March 2025
	<b>NASA Goddard Space Center</b> , Greenbelt, MD <b>Aerospace Engineer</b> <ul style="list-style-type: none"><li>Extracted database of approximately 100,000 internally warehoused items via Python web requests to create a search tool</li><li>In Python, programmed testing of a voice coil mirror for a lunar lidar prototype</li><li>Led tens of vibration tests (random, sine, shock/burst, and notched) for flight and non-flight space hardware</li></ul>	June 2020 – November 2022
	<b>NASA Kennedy Space Center</b> , Cape Canaveral, FL <b>Mechanical Engineer</b> <ul style="list-style-type: none"><li>Built <a href="https://nasaacronyms.com">https://nasaacronyms.com</a>, which has over seven hundred weekly active users and uses Python and Power Query to automatically update the database daily</li><li>Taught myself Ladder Logic and reprogrammed a thermoforming machine’s PLC</li><li>Integrated temperature control into a <math>10^{-5}</math> torr vacuum chamber and ran thermal vacuum testing for an ISS flight experiment from -40 °C to +60 °C</li></ul>	May 2016 – June 2020

- Managed development of a 5 kV electrosprayer for microgravity aeroponics  
SpaceX, Hawthorne, CA January 2017 – April 2017

**Build Reliability Intern**

- Automated sensor drift verification for the pressure transducer production team
- Wrote the majority of my team's SQL queries and additional ones for another team
- Processed risk data by writing Python scripts and Excel macros

**AWARDS**

- COMSOL Conference** – Received best paper award 2019  
**PennApps Hackathon** – Received a smartwatch for making an app that had 2,000+ users 2015  
**American MENSA Annual Gathering Sudoku Tournament** – First place 2013  
**Exceptional Talent Award** – Awarded by the Johns Hopkins University Center for Talented Youth for scoring 700-800 on the SAT I - Mathematics test before the age of 13 2005

**SELECTED PUBLICATIONS**

- Johansen, et al. (2019). *Electrodynamic Dust Shield Testing on the Materials on International Space Station Experiment 11*. International Astronautics Congress (IAC), Washington D.C.
- Wang, J., Malissa, J., Phillips III, J., Johansen, M., & Calle, C. (2019). *Numerical Model of Mars Electrostatic Precipitator*. COMSOL Conference, Boston. \*Best Paper Award
- Malissa, J., & Ahmad, N. (2019). *Bowles-Tatnall Wake Vortex Encounter Hazard Metric* [TM-2019-220285]. NASA Langley Research Center.

**READING LIST**

My reading list is available at <https://joelmalissa.com/books>