| | Tukwila, WA, United States, 425-870-8380, jonfloydell@gmail.com | |
|---------------------|---|--------------|
| EDUCATION | | |
| Aug 2016 — Jun 2022 | Ph.D. and MS in Materials Science and Engineering, University of California, Berkeley | |
| | Minor in Nuclear Engineering and Business | |
| Aug 2012 — Jun 2016 | BS in Materials Science and Engineering, University of Washington | |
| | Minor in Nanoscience and Molecular Engineering | |
| RELEVANT EXPERIENC | Е | |
| Jun 2023 — Present | Test Design Engineer - New Glenn Rocket, Blue Origin | Kent, WA |
| | Led, performed, and accelerated the pace of qualification and acceptance testing of mechanical systems components for the New Glenn rocket. Promoted from Test Engineer II to Test Engineer III during tenure. | |
| | Separation system (~135kN pneumatic actuators) - Reduced acceptance testing time from 40 hours to 4 hours per actuator and transitioned from an all manual procedure personally executed to a mostly automated procedure that is performed by technicians. Barge deck attachment mechanism (ordnance operated "cannon" to secure booster to barge) - Increased the speed of acceptance and performance testing from a projected speed of 2 days per test to 5 hours per test by reducing requirements, deleting unnecessary processes, and simplifying and optimizing the testing setup and processes. Hydrazine bottle - Developed and performed the process for cold forming the 304L SS bottle at -45°C. | |
| Jun 2016 — Jun 2022 | Graduate Research Assistant & Lab Manager - Robert O. Ritchie's Lab, UC Berkeley & Lawrence Berkeley National Laboratory | Berkeley, CA |
| | Led the testing of mechanical properties and examined the mechanisms of failure for structural materials. | |
| | Developed equipment and procedures for mechanical tests from -196 to 1350°C in various environments. | |
| | Managed lab materials and equipment. procurement, safety, training, and maintenance | |
| Jun 2017 — Jun 2022 | Failure Analysis Technician, Robert O. Ritchie Consulting | Berkeley, CA |
| | Conducted failure analyses on medical devices (IVC filters) to determine the causes and mechanisms of failure. | |
| | • Determined mechanical properties of medical devices under <i>ex vivo</i> conditions. | |
| Aug 2016 — Present | Minority Owner & Engineer, Corrosion Mitigation LLC | Seattle, WA |
| | Installed and maintained Cathodic Protection Systems on Seattle's I-90 floating bridge, Gas Transmission Northwest pipeline, and bulk storage tanks. | |
| Jan 2022 — Jul 2023 | Owner & Founder, Berkeley Material Analytics LLC | Berkeley, CA |
| | Designed and built prototype lab equipment for mechanical testing labs. | |

Undergraduate Research Assistant, MIT

Jun 2015 — Aug 2015