

Daniel Chiu

danielchiu08@gmail.com | (949) 231-2890 | **LINKEDIN:** www.linkedin.com/in/danielchiu08 | **PORTFOLIO:** www.chiudaniel.com

Detail-oriented and adaptable Mechanical Engineer with 4+ years of experience. 2+ years in the Automotive Industry designing and evaluating vehicle systems via requirement writing, virtual simulation, and real-world testing. Proven product management ability by leading a 15-person cross-functional team to launches of 2 vehicle lines with a 3rd on the way.

WORK EXPERIENCE

Mechatronics Engineer II, Rivian | Irvine, CA | 7/2022 – Current

- Successfully launched 2 vehicle lines, R1S Gen 2 and R1T Gen 2, as Product Manager for doors, windows, and gear tunnel mechatronic systems by:
 - Leading a cross-functional team of 15 mechanical, software, and electrical engineers.
 - Building SIL/HIL, FEA, and kinematic simulations as well as mechatronic test setups to verify design.
 - Writing over 40 functional requirements and conducting over 300 vehicle tests to detect design risks.
- Developing 4 more systems as Product Manager on next vehicle line, R2.
- Self-initiated an overhaul of department's requirement evaluation process to add structured approval loops alongside system integration testing to standardize and streamline process.
- Re-designed critical piece on charge port assembly and negotiated its production with 3 suppliers to not only reduce piece cost by 30% but also prevent factory from running out of supply.

Mechanical Engineering Technician, Fluor Corporation | Aliso Viejo, CA | 6/2021 – 8/2021

- Supported material selection and design validation of renewable biofuel refinery by inspecting operating conditions of hundreds of sections of pipelines to provide material and fastening requirements.
- Assessed around 100 Piping & Instrumentation Diagrams (P&ID) to approve layout and specification of refinery's pipelines and its connections.

Research Consultant, U.S-Asia Technology Management Center | Stanford, CA | 4/2020 – 6/2021

- Surveyed business practices, funding, and mergers/acquisitions of over 100 different labs, startups, and large companies to identify emerging technologies in manufacturing industry for major corporations such as Kawasaki Heavy Industries and Mitsubishi Corporation.
- Conducted research funded by a Global Fortune 500 electronics corporation into examining and measuring the effects of robotics and artificial intelligence usage in the manufacturing industry.

EDUCATION

M.S Mechanical Engineering – 2022, Stanford University | Cumulative GPA: 4.0/4.0

B.S Mechanical Engineering – 2021, Stanford University | Cumulative GPA: 3.8/4.0

SKILLS

- 2+ years of Product Management and Systems Integration – Tools: JAMA, Plato, Jira, Confluence.
- 2+ years of Model-Based Systems Engineering with SIL/HIL, Kinematic, FEA, Thermofluid simulation – Tools: MATLAB Simulink, Altair Inspire, Simsolid, Ansys.
- 8+ years of 2D and 3D CAD – Tools: CATIA V6, Solidworks, Siemens NX, Fusion 360.
- 6+ years of coding with MATLAB and Arduino, working knowledge of Java.
- Fully proficient with Microsoft Office.
- Native English fluency, JLPT N3 Intermediate Japanese proficiency – studying for N2, limited working French and Indonesian proficiency.
- Excellent communication, collaboration, and interpersonal skills from current role as well as 2 years as a Stanford Teaching Assistant and Residential Assistant, and 7+ years of leadership roles as an Eagle Scout.