Daniel Wijaya

Sr. Reliability Engineering

LinkedIn: www.linkedin.com/in/daniel-wijaya
Github: https://github.com/wijayad
Personal Projects: https://wijayad.github.io/#projects

Email: daniel.wijaya@mail.mcgill.ca
Phone Number: (438) 763 9123

Skills

Design: DFA, DFM, SolidWorks, OnShape, KiCAD

Testing: RCA, DFMEA, Risk Analysis, Python, Arduino, DMM, Oscilloscope, C++, TypeScript

Other: Additive Manufacturing, G-code, Soldering, Lasercutting

Experience

Mosaic Manufacturing | Sr. Reliability Engineering Specialist
JANUARY 2026 - PRESENT

• Own end-to-end reliability strategy, defining qualification plans, test protocols, and acceptance criteria to ensure alignment with reliability targets

• Apply Design for Reliability (DFR) and Design Failure Mode and Effects Analysis (DFMEA) principles to system architecture, component selection, and design

• Led cross-functional root cause failure analysis (RCA), driving corrective and preventative actions, leveraging field and validation data to mitigate dominant failure mechanisms

Mosaic Manufacturing | Reliability Engineering Specialist
OCTOBER 2024 - DECEMBER 2025

• Define & execute reliability validation programs, including accelerated life, stress, and environmental testing

• Analyzed test data to identify failure modes and quantify reliability risks and conducted root cause failure analysis and drove corrective actions with cross-functional teams

• Apply Design for Reliability (DFR) and Design Failure Mode and Effects Analysis (DFMEA) to influence architecture, component selection, and design

Mosaic Manufacturing | Applications Engineering Specialist
MAY 2023 - OCTOBER 2024

• Develop and validate an automated 3D printing solution (Mosaic's Array and Element)

• Develop and integrate firmware, software, and hardware to fulfill application requirements

Mosaic Manufacturing | Mechanical Engineering Designer
JUNE 2021 - MAY 2023

• Design, develop, and validate an automated 3D printing solution (Mosaic's Array & Element)

• Applied Design for Manufacturing (DFM) principles and collaborate with contract manufacturers to execute production pilot builds

• Develop quality assurance rigs

Education

McGill University / Bachelor's degree, Mechanical Engineering Internship Program
SEPTEMBER 2016 - APRIL 2021