Jackson Dean

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Education

University of Utah – *Salt Lake City, UT*
B.S. Mechanical Engineering – May 2021
B.S. Computer Science   – Dec 2022

- Cumulative GPA: 3.96
- ***Relevant Coursework:*** Systems Engineering, Manufacturing, Strengths of Materials

Experience

Engineer – *Kairos Autonomi*   **May 2020 – May 2023**

- Won a US Navy R&D contract to develop a robot capable of autonomously piloting small boats. The project extended from initial client meetings to the delivery of several hundred systems.
- Created and maintained embedded systems applications within a large legacy codebase.
- Rapidly iterated software, hardware, electronics, and procedures for dozens of prototype robotic systems, often going from idea to small-batch production within days.
- Experienced working with autonomous ground and air vehicles, especially using Ardupilot control firmware and MAVLink communication protocol.
- Completed a wide variety of projects including robot network communication protocols; PCB design; GitHub administration; supply chain analysis; field product support and service; design and manufacture of injection molded, 3D printed, sheet metal, and CNC machined parts.
- Authored a variety of documentation and reports in an ISO 9001 environment including manufacturing processes, API specifications, patent applications, user manuals, assembly instructions, client progress reports, project proposals, and BOMs.

Vice Chair – *Lassonde Make Space*   **August 2019 – December 2022**
- Hired and managed a team of 15 people who maintain the space and interact with customers.
- Maintained a safe and efficient shop environment for students to work and learn in.
- Designed and coordinated workshop events to teach new engineering skills to students.
- Worked closely with students to overcome engineering challenges in their own projects.

Teaching Assistant – *Technical Writing Class*   **August 2019 – May 2020**

- Helped two classes with a combined 45 students in writing and editing various technical documents including technical reports, presentations, and resumes.

Technical Skills

- SOLIDWORKS and Fusion 360 Modeling and Simulation
- Rapid prototyping and manufacturing methods
  - CNC machining, 3D Printing, Laser Cutting
- Programming Languages:
  - Java, Python, C#, C++, C, Arduino, MATLAB