Daniel Jaeger

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PROFILE

Mechanical Engineering graduate student with extensive knowledge in automation, robotics, and software. Proven track record of working on collaborative teams and using version control in large projects. Seeking a full-time robotics software engineer position.

EMPLOYMENT HISTORY

Aug 2018 – Dec 2020 — Graduate Researcher, Center for Advanced Robotics — College Station, Texas

- Successfully defended master's thesis on a novel trajectory planner that guarantees uniform surface coverage and reduces execution time by over 60%
- Developed an efficient method of 3D reconstruction using differential geometry
- Implemented and debugged hybrid motion/force controller used to automate the sanding of helicopter blades
- Performed extensive testing using KUKA, UR5, and ABB4600 articulated robots

Jan 2018 – Jun 2018 — Automation Engineering Co-op, Brock Solutions Inc. — Dallas, Texas

- Identified problems with baggage handling systems such as bag collisions and inadequate spacing between luggage
- Utilized RSLogix to debug ladder logic code used in Allen Bradley PLC's
- Performed stress tests on baggage systems using AutoMod simulation software
- Ensured hardware functionality during onsite commissioning

EDUCATION

Aug 2018 – Dec 2020 — Master of Science in Mechanical Engineering — College Station, Texas
Texas A&M University – College Station
GPA: 3.50

Aug 2017 – Dec 2017 — Singapore Study Abroad Semester — Singapore
National University of Singapore – Singapore
Courses: Functional Programming, Automation, Electrical Circuits

Aug 2013 – May 2017 — Bachelor of Science in Mechanical Engineering — College Station, Texas
Texas A&M University – College Station
Minors: Computer Science and Spanish
GPA: 3.89

SKILLS

Robot Kinematics	Expert	Linux OS	Experienced
ROS	Expert	Matlab	Experienced
Python	Expert	Git	Experienced
Robot Controls	Experienced	Machine Learning	Competent
C++	Experienced	Ladder Logic	Competent