DESMOND QUINN

AEROSPACE ENGINEER

CONTACT

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(123) 456-7890
Ann Arbor, MI
LinkedIn

EDUCATION

Bachelor of Science
Aerospace Engineering
University of Michigan
2009 - 2013
Ann Arbor, MI

SKILLS

CATIA
ANSYS
Fluent
MATLAB/Simulink
X-Plane
Microsoft Project
Siemens Teamcenter
Python with NumPy and Pandas
Altium Designer
Siemens Digital Industries

WORK EXPERIENCE

Aerospace Engineer

Eberspaecher
2019 - current / Ann Arbor, MI

- **Led a cross-functional team of 5+ engineers** to develop a new avionics system, using best project practices to reduce development time by 4 months.
- Developed aerodynamic models with the help of CATIA for 9 aircraft components, mitigating design errors by 21%, compared to traditional modeling methods.
- Engineered control systems in MATLAB/Simulink, improving the average flight stability metrics by 16%.
- Managed all project timelines using Microsoft Project, consistently delivering high-value project results 3 days ahead of schedule.

Systems Engineer

Battelle Memorial Institute
2016 - 2019 / Ann Arbor, MI

- Improved CFD simulations with ANSYS Fluent, expediting the average analysis time by 4 days.
- Created web scrapers using Python (Pandas), **obtaining data from the internet 48 minutes quicker** than manual processes.
- Automated data integration between Siemens Teamcenter and other system engineering tools, curtailing reported manual errors by 31%.
- Optimized PCB design processes in Altium Designer, shortening prototype development by 7 days.

Design Engineer

General Dynamics
2013 - 2016 / Ann Arbor, MI

- Analyzed structural failures to find root causes of problems, lowering rework costs by $5,931 via data-backed material selection.
- Integrated Fluent simulations into 14 manual design processes, upgrading the existing thermal management system.
- Worked with multiple teams simultaneously on Siemens Digital Industries to design and validate a special aircraft wing, completing the design 2 weeks before schedule.
- Refined flight dynamics models using X-Plane, **growing flight performance prediction scores by 13%.**