PERSONAL STATEMENT

A self-motivated, knowledge hungry engineer. Certifications with tools and technologies like SolidWorks and machine learning showcase an inner drive to learn and improve. Experience with project management, data analytics, and material testing. Personal projects like PCB design and spare-time coding projects keep engineering skills sharp. Proficient with tools like Microsoft Office, Adobe Illustrator, MATLAB and SAS. Able and extremely willing to learn new methods and technologies quickly.

SKILLS

Ansys Structure Analysis CATIA/ENOVIA

Auto Repair/Maint C++

Cisco IOS Project Management

Composite Materials Adobe Illustrator

LabVIEW Git

Python MATLAB

Linux Administration Microsoft Office

Virtualization Windows Administration

EAGLE PCB Design MIG Welding

Solidworks/CircuitWorks Technical Writing

HOBBIES & INTERESTS

Model Aircraft and UAS

Besides the UAS developed as a part of gaining an aerospace engineering degree, hobbies have included building, modifying, and designing model aircraft. Experience with both multicopters and fixed wing aircraft. Experience with LiPo/LiFe batteries and Nitro-powered planes and cars.

Programming and Electronics

Development experience includes advanced Arduino & Raspberry Pi programming projects, such as an onboard motorcycle computer and custom power monitoring PCB and code. Languages used include Python, C/C++, PHP, and HTML/CSS among others. Hosts a personal website from a Raspberry Pi. Experience with circuit design, multimeters, oscilloscopes, logic analyzers, and soldering.

CERTIFICATIONS



Completed August 2017 Machine Learning - License 53EEV4RDMTFD Stanford University via Coursera

Completed November 2017
CSWA - License C-KJ4J473HGH
Dassult Systems SOLIDWORKS

RELEVANT EXPERIENCE

Structural & Payload Design Engineer I, The Boeing Company Oklahoma City, Oklahoma

February 2018 to Current

• Currently working as a designer on the ETS&S team.

Test Engineer/Tech Lead, Principled Technologies, Inc Durham, North Carolina

June 2014 to August 2017

- Performed a wide range of tests on enterprise and consumer hardware. Used lab equipment like environmental chambers, drop tables, and multimeters
- Wrote automation and management scripts in Python, Bash, PowerShell and more. Analyzed large datasets using tools from vendors like SAS.
- Performed project management duties and worked on multi-disciplinary teams. Interfaced with clients including Fortune 500 companies
- Required advanced technical writing skills to craft reports, documentation, methodologies, presentations and more

Team Lead/Student Intern I, AT&T Durham, North Carolina

June 2012 to June 2014 20hrs/wk

- Technical position requiring knowledge of network protocols and topology
- Maintained work/school balance, required great time management skills
- Knowledge of excellent customer service practices and techniques, experience with advanced ticketing and issue tracking systems
- Received Six Sigma Yellow Belt training
- Trained to support/repair many enterprise grade AT&T technologies with advanced knowledge of Cisco IOS, Juniper, and Edgewater Networks routers
- Trained peers on AT&T technologies, led a team of 15+ interns

Aerospace Senior Design, NCSU Raleigh, North Carolina

August 2013 to May 2014 Variable, peak >50hrs wk

- Part of a team that designed, constructed, and flew a custom unmanned aerial system according to customer design criteria
- Performed physical testing to ensure components performed as designed
- Interfaced with large aerospace firms specifying criteria for part fabrication
- Experience with fabrication, design, and testing of modern aerospace materials including carbon fiber, fiberglass, and aluminum
- Crafted various lab reports, documents, design reviews (PDR/CDR). Experience with FMEA/FMECA failure analysis methods

Swim Coach, YMCA of the Triangle Holly Springs, North Carolina

April 2010 to September 2012 ~hrs/wk

- Head coach of a swim team of more than 50 swimmers
- Coached on swim technique, mindsets, and motivated swimmers to succeed
- Collaborated with parents and other coaches for large scale event planning (swim meets)

EDUCATION

BS From 2010 to 2014
Aerospace Engineering, B.S.
North Carolina State University

September 2017 to December 2017 Air Traffic Control Trainee Federal Aviation Administation Academy

HOBBIES & INTERESTS CONT.

Automotive and Metalworking

Cars, motorcycles and their engines/underlying mechanical structures - proficient automobile mechanic. Past projects include restoring old motorcycles and classic cars. Knowledge of MIG welding, metal casting methods, and basic woodworking principles. Have fabricated cast aluminium parts from 3D model, 3D printer, and green casting sand

Piloting

A total of 12 hours flight time logged in a Cessna 172. Soloed after only 10 hrs.