

Landon Wright

Mechanical Engineer

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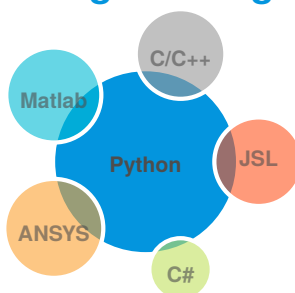
Git
github.com/landonbw

Personal Skills



CAD Preference
NX ★★★★★
Solidworks ★★★★★
Fusion 360 ★★★★★

Programming



Languages
English ★★★★★
Spanish ★★★★★

Certifications
HAM Amateur Extra
GO PLM for NX

Education

- 09/17 - 04/19 **Master of Science, Mechanical Engineering** [BYU CAD Lab, Provo UT](#)
Relevant Coursework: Statistical Methods for Research, Computer Aided Engineering Software Development
- 01/12 - 04/17 **Bachelor of Science, Mechanical Engineering** [BYU, Provo UT](#)
GPA: 3.55
Relevant Coursework: Flight Dynamics and Control, Kinematics, Mechanical Systems Design Applications, Engineering Measurements, Heat Transfer, Fluid Dynamics, Engineering Graphics

Skills and Abilities

Statistical Analysis

- (JMP) Co-presenter at the 2017 JMP Discovery Summit demonstrating statistical analysis of flight simulator created in JSL
- (JMP) Analyzed environmental factors that effect webbing strength in Search and Rescue applications - Awarded best new research ITRS 2017

Communication

- Awarded best new research for work presented at the 2017 International Technical Rescue Symposium
- Presented actionable results of academic research to volunteers and industry professionals at the 2017 International Technical Rescue Symposium

Control Systems

- (Python) Created flight simulator and aircraft control systems for Micro Air Vehicles including PID control, total energy control, and Kalman filters and path planning algorithms
- (Python) Implemented PID, State Space, and Loop Shaping control methods for a two rotor "Whirlybird"

Experience

- 02/14 - Now **Research Assistant** [BYU CAD Lab, Provo, UT](#)
- (C#) Team lead of group developing algorithms to create simplified assembly representations for reduced CAD software load times
 - (C#) Developed and debugged multi-user collaborative CAD software
 - (C++/OpenCV) Designed tools to analyze mouse movement and error messages in screen recordings
- 04/16 - 09/16 **Research Assistant** [Compliant Mechanisms Research Laboratory, Provo, UT](#)
- Implemented technology push product design methods to discover novel applications of origami inspired compliant mechanisms
 - Created a process to manufacture textiles with shape memory
- 04/15 - 09/15 **Engineering Intern** [Precorp Inc, Spanish Fork, UT](#)
- Developed qualification tests for the evaluation of pyrophyllite substitutes
 - Investigated methods of non-destructive crack detection in poly-crystalline diamond to eliminate time intensive manual inspection

