

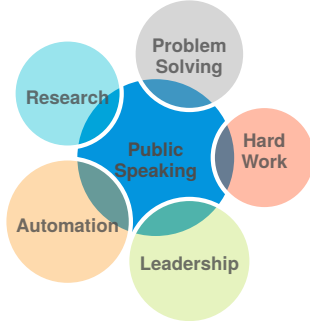
# Landon Wright

## Mechanical Engineer

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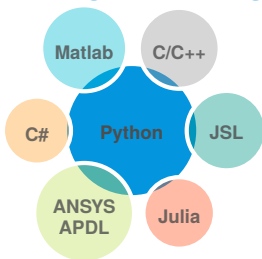
## Personal Skills



## CAD Preference

NX ★★★★★  
Solidworks ★★★★★  
Fusion 360 ★★★★★

## Programming



## Languages

English ★★★★★  
Spanish ★★★★★

## Certifications

Amateur Extra HAM  
GO PLM for NX

## Education

09/17 - 04/19 **Master of Science, Mechanical Engineering**

BYU, Provo UT

GPA: 3.85

Relevant Coursework: Multi-Agent Systems, Statistical Methods for Research, **Optimization Techniques**, Systems Engineering and CAD Applications Computer Aided Engineering Software Development

01/12 - 04/17 **Bachelor of Science, Mechanical Engineering**

BYU, Provo UT

Relevant Coursework: **Flight Dynamics and Control**, Mechanical Systems Design Applications, Engineering Measurements

## Skills and Abilities

### 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"

### Leadership

- Mentored a team of 3 students with \$50,000 budget to investigate CAD automation methods leading to a publication in CAD and Applications Journal
- Prepared and presented project updates to multinational aerospace and automotive corporations to secure future funding for research activities

### Product Development

- Recognized by Associate Administrator of National Nuclear Security Administration for excellence in design of nuclear ordinance tooling
- Designed and constructed an adhesive free paper sealing device used to reduce tea bag packaging time by 85%

## Experience

05/18 - 08/18 **Systems Engineer Intern**

Honeywell, Phoenix, UT

- (MATLAB) Reduced circuit analysis time from three days to three hours with a 98% reduction in rework time through programmatic automation
- Eliminated redundant test methods by evaluating and comparing competing requirements of RTCA DO-160, MIL-STD-810, and MIL-STD-461.
- Prepared and presented critical design review slides to customer

02/14 - Now **Research Assistant**

BYU XDL, Provo, UT

- Co-founded Search and rescue arm of research leading to best new research award at the 2017 International Technical Rescue Symposium
- (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

04/15 - 09/15 **Engineering Intern**

Precorp Inc, Spanish Fork, UT

- Generated a cost savings of \$100,000 annually by evaluating alternatives to pyrophyllite in poly-crystalline diamond production
- 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

