

# Parker Lusk

PERCEPTION · ESTIMATION · CONTROLS

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## Education

### Brigham Young University

M.S. ELECTRICAL AND COMPUTER ENGINEERING

- 4.00/4.00 GPA

Provo, UT

Aug. 2016 - Aug. 2018

### Brigham Young University

B.S. ELECTRICAL ENGINEERING

- 3.78/4.00 GPA

Provo, UT

Jan. 2013 - Aug. 2016

## Work Experience

### BYU MAGICC Lab

GRADUATE RESEARCH ASSISTANT

- Safe2Ditch: Joint NASA Langley project for autonomous emergency landing of drones
- Visual multiple target tracking using monocular camera on autonomous aerial vehicles

Provo, UT

Aug. 2016 - Aug. 2018

### LGS Innovations

EMBEDDED DEVELOPER / PCB DESIGNER

- Worked with the Intel Edison embedded Linux Platform; designed and assembled PCB add-ons with Cadsoft EAGLE
- Wrote NodeJS app to control embedded hardware

Westminster, CO

Summer 2015

### Verisage and Coding Campus

SOFTWARE DEVELOPER / COURSE INSTRUCTOR

- Managed Verisage projects and worked with clients to add value to their products
- Taught students and developed curriculum at Coding Campus

Provo, UT

Mar. 2013 - Apr. 2015

## Relevant Coursework

**Signals & Systems** Digital Comms Theory, Math of Signals & Systems, Stochastic Processes, Digital Signal Processing

**Control Theory** Feedback Control, Flight Dynamics and Control, Linear System Theory

**Robotics and AI** Robot Soccer, Bayesian Methods, Deep Learning, Autonomous Systems

## Skills

**Programming** C/C++, Python, MATLAB, ROS, OpenCV, TensorFlow, Git

**Embedded** STM32, NVIDIA TX2

## Extracurricular Activity

**Teaching Assistant**, EE Senior Project - Robot Soccer

Winter 2017 Brigham Young University

**Founder, President**, BYU Mechatronics Club

Fall 2014 - Winter 2016 Brigham Young University

## Honors & Awards

**Fellowship**, Utah NASA Space Grant Consortium

Aug. 2017 - Apr. 2018 Brigham Young University

**Recipient**, Heritage Scholarship

Jan. 2013 - Aug. 2016 Brigham Young University