

Parker C. Lusk

PERCEPTION · ESTIMATION · CONTROLS

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Education

Brigham Young University

M.S. ELECTRICAL AND COMPUTER ENGINEERING

- 4.00/4.00 GPA
- Advisor: Randy Beard

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 Advanced Coursework

Signals & Systems Digial 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, Robotic Vision, Autonomous Systems

Skills

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

Embedded STM32, NVIDIA TX2, Pixhawk, Arduino

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

Technical Advisor, KVM Foundation

2014 Visakhapatnam, India

Student, Pembroke-King's Programme

Summer 2013 Cambridge University, UK

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