

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	Digital Comms Theory, Math of Signals & Systems, Stochastic Processes, Digital Signal Processing
Control Theory	Feedback Control, Flight Dynamics and Control, Linear System Theory, Nonlinear 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
Invited, Phi Kappa Phi
Invited, IEEE-Eta Kappa Nu
Recipient, Heritage Scholarship

Aug. 2017 - Apr. 2018 *Brigham Young University*
2017 *Brigham Young University*
2016 *Brigham Young University*
Jan. 2013 – Aug. 2016 *Brigham Young University*