http://markjcutler.com | markjcutler@gmail.com | 617.871.0544

## **INDUSTRY EXPERIENCE**

## KITTY HAWK

ENGINEERING LEAD, SPECIAL PROJECT

- Jul 2020 Present | Mountain View, CA
  - FILL IN
  - FILL IN

### **ENGINEERING LEAD. FLYER**

Oct 2019 - Jun 2020 | Mountain View, CA

- FILL IN
- FILL IN

## SOFTWARE AND CONTROLS LEAD, FLYER

Sep 2015 - Sep 2019 | Mountain View, CA

- FILL IN
- FILL IN

## **EDUCATION**

#### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PHD IN ROBOTICS AND AUTONOMOUS SYSTEMS

Sep 2015 | Cambridge, MA | GPA: 4.7 / 5.0

Thesis: Practical Robot Reinforcement Learning through Efficient Simulator Sampling Committee: Prof. Jonathan P. How, Prof. Leslie Kaelbling, Dr. Andrea Censi

## MS in Aeronautical and Astronautical Engineering

Aug 2012 | Cambridge, MA | GPA: 4.7 / 5.0

Thesis: Design and Control of an Autonomous Variable-Pitch Quadrotor Helicopter

#### **BRIGHAM YOUNG UNIVERSITY**

BS IN MECHANICAL ENGINEERING

Apr 2010 | Provo, UT | GPA: 3.99 / 4.0

## SELECTED PATENTS AND PUBLICATIONS

- M. Cutler, T. Reichert, J. Jackson, Distributed flight control system. *US 9977432*, May 2018
- M. Cutler, Emergency landing using inertial sensors. US 9639087, May 2017
- M. Cutler, T. Walsh, J. How, Real-World Reinforcement Learning via Multi-Fidelity Simulators. *IEEE Transactions on Robotics*, June 2015
- M. Cutler, J. How, Actuator Constrained Trajectory Generation and Control for Variable-Pitch Quadrotors. AIAA Guidance, Navigation, and Control Conference (GNC), 2012

## **SKILLS**

## **PROGRAMMING**

- (++
- (
- Python
- Matlab

## **TOOLS**

- ROS1/2
- Git
- Wireshark
- SolidWorks

#### **HARDWARE**

- PCB design
- Board bringup
- Logic analyzer
- Drivers and debugging for ethernet, serial, I2C, SPI
- SMD soldering and rework

# **VOLUNTEER**

# THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

VOLUNTEER REPRESENTATIVE July 2005 – July 2007 | Rostov, Russia

- Provided leadership, development and training for 16 volunteer representatives
- Oversaw volunteer operations in a geographical area covering over 300 miles

# **INTERESTS**

- Ultimate frisbee
- Skiing
- Racquet sports
- Hiking and camping