MacCallister Higgins

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Education (Graduated May *2015*)

B.S. **Computer Science and Engineering.** *Specialization in Intelligent Systems.* University of Nevada.

Research Experience

- Currently developing software systems to safely sense, image, and recognize obstacles during degraded visual environment (DVE) instances for military rotorcraft systems
- Founded company that is currently collaborating with NASA, AT&T, 3DR, and the FAA to make the national airspace safer with the introduction of drones
- Performed embedded systems research with the UNR Robotics Lab for UAV/drone command and control
- Designed and carried out study on the perception of mistreatment towards robots, submitted to Journal of Human-Robot Interaction
- Published and presented research at the IMECE international conference in Denver
- Programmed sensor hub/relay embedded mesh network system for the NASA OMEGA Project
- Won a proposal in 2011 to develop control system for microfluidic device fabrication

Work Experience

- Software Engineer at Sierra Nevada Corporation — 2015-2016
- Founder, CEO, and Lead Engineer at Nevada Dynamics — 2014-2016
- Member of the UNR Robotics Lab (UAV embedded systems) — 2014-2015
- Intern at Flirtey, the first company legally allowed to perform drone deliveries in the United States (ahead of Google and Amazon) — 2014
- Member of the Polymer Microsystems Research Team — 2011-2014
- Engineering Communications Teaching Assistant — 2013-2014
- College of Engineering Writing Fellow — 2013

Academics and Award Recognition

- Awarded Full-Ride Scholarship to Attend the University of Nevada, Reno
- Recruited as Presidential Scholar, the highest award given to entering freshmen
- College of Engineering Dean's List, Selected for an Undergraduate Research Position
- Overall winner of $50,000 Sontag Entrepreneurship Award at University of Nevada, Reno for drone/UAV startup company Nevada Dynamics