
EXPERIENCE

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| Research Assistant | Institute for Simulation & Training | May 2012 - Present |
| <ul style="list-style-type: none">Assist in funded research primarily in the field of human robot interaction through projects sponsored predominantly by the U.S. Army Research Laboratory (ARL) and other similar agencies.Experienced workings within teams comprising of engineers, psychologists, and designers whom are often directed by non-technical peers to ensure successful research in fields of high technical merit.Custom software development enabling the successful completion of contracted deliverables via GUI customizations, hardware-sensor interfacing, data retrieval and analysis, network communications, and autonomous robotics development. | | |
| Internship | Primal Innovations | March 2012 - May 2012 |
| <ul style="list-style-type: none">Assembly of designed electronics hardware for a U.S. Army contract.Delivered a finished prototype consisting of a kilometer long metal detector cable for use in detecting metal objects covertly over large perimeters with high precision. | | |
| Systems Engineer | Robotics Club at UCF | August 2011 - Present |
| <ul style="list-style-type: none">Lead teams of multi-disciplinary undergraduate and graduate student volunteers to design, build, present, and compete in sponsored international robotics competitions hosted primarily by the Association for Unmanned Vehicle Systems International (AUVSI).Create platforms ranging from underwater to ground vehicles to consistently place in the top five of their respective competitions.Create reliable electrical and mechanical assemblies to allow for controlled locomotion of robotic platforms.Develop software to enable intelligent interaction and navigation of robots within dynamic environments through computer vision algorithms, A.I. programming, and hardware-software interfaces. | | |

TECHNICAL PROJECTS

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| 3D Laser Range Finder | August 2013 - April 2014 |
| <ul style="list-style-type: none">Capstone engineering project in which a 3D range finding system was constructed leveraging a commercially available 2D laser scanner. | |
| Autonomous Robotic Boat | August 2011 - Present |
| <ul style="list-style-type: none">Construction of a fully autonomous boat for use in competing at the International RoboBoat competition. | |

ACHIEVEMENTS

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| Competition Awards | August 2011 - Present |
| <ul style="list-style-type: none">Awards for multiple top five placements in international robotics competitions sponsored by AUVSI totaling over \$5,000.00 in cash prizes for a student organization. | |
| Robotics Club Vice President | August 2012 - August 2013 |
| <ul style="list-style-type: none">Leadership role in which administrative roles including financial decisions, resource delegation, and event planning of a registered student organization were assumed. | |

COMPUTER SKILLS

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| Programming Languages |
| <ul style="list-style-type: none">Proficient in C++/CFamiliar with Java, HTML, PHP, and XML |
| Software Libraries |
| <ul style="list-style-type: none">Qt5, WxWidgets, TinyXML, OpenCV, PCL, JAUS++ |
| Development and Build Tools |
| <ul style="list-style-type: none">Visual Studio, QtCreator, Eclipse, CMake, QMake, Make, GCC |
| Operating Systems and Applications |
| <ul style="list-style-type: none">Windows, Linux(Ubuntu and Debian), Subversion, Git, Cadsoft Eagle, Solidworks, Doxygen, Microsoft Office |

EDUCATION

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| University of Central Florida | August 2011 - May 2014 |
| <ul style="list-style-type: none">B.S. in Computer Engineering | Expected to graduate May 2014 |