

Victor Ardulov

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Skills

Programming Experience: Java, C, C++, Python, C#, MatLab, Assembly

Web and Mobile Development: HTML5, CSS, JavaScript, PHP, jQuery, Bootstrap, THREE.js, D3.js

Frameworks and Operating Systems: Unix, Windows, Git, SolidWorks, Simulink, Unity, OpenCV, ROS, SolidWorks

Other: U.S. Citizen; Strong verbal and written skills; Fluent in English, and Russian

Experience

Jet Propulsion Laboratory

June 2015 – September 2015, July 2016 - Present

Created new Virtual Reality tool, SCENARIO, for terrain visualization and interaction, for both Martian and Earth science and operational uses. Programming in C# and using Unity to render 3D terrain maps and simulate rover motion. Presented at AIAA 2015 conference on advancing aerospace technologies. Part of Virtual Village at SIGGRAPH 2016

Autonomous Systems Laboratory

January 2014 – June 2016

Used a ROS and Python enabled platform to research LIDAR and stereo-vision sensor integration to generate “safe” trajectories for autonomous vehicles on un-mapped terrain. Topics included SLAM, computer vision, sensor integration, and navigation.

Computer Engineering Tutor

January 2015 – March 2016

Led group tutoring sections for multiple introductory computer engineering classes, including: Introduction to Computing System and Assembly, as well as, Computer Systems and C Programming. Held impromptu lectures to support material covered in classroom, focused on embedded software design and implementation.

eBay Inc.

June 2014 – September 2014

Developed front-end software for customizable dashboards for “Sherlock”, an internal tool for eBay production application and systems monitoring. Designed and integrated new features using HTML, CSS, JavaScript and extended jQuery libraries.

Projects

Senior Design Project: Motor-Assistive Glove

December 2015 - Present

Designed and built an exoskeleton glove which assists patients suffering from limited finger strength. Selected to present at Maker Faire 2016. Awarded Dean's Award in Engineering 2016

Autonomous Husky A200

September 2014 – September 2015

Awarded Crown College Undergraduate Research Fellowship for research of autonomous navigation algorithms. Programming in Python for ROS controllers, and OpenCV implementations.

Mechatronics 2015 Final Project: “Slug Wars”

November 2015 – December 2015

Designed and implemented a fully functioning autonomous robot in mechanical, electrical, and software aspects to complete a challenge presented to the class, in under 4 weeks time. Gained extensive experience designing in SolidWorks, rapid prototyping, and programming in C.

Education

University of California – Santa Cruz

September 2013 – June 2016

Major: Computer Engineering

Concentration: Robotics and Controls Systems

Awards:

GPA: 3.6

Dean's Award in Excellence for Engineering

Crown College Undergraduate Research Fellowship

Graduated with Honors