Alice Zielinski

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**Education:**

University: Massachusetts Institute of Technology (MIT), June 2016

Major: Computer Science and Mathematics

**Work Experience:**

[Fall 2012] MIT Media Lab

* Software development in C++ for LuminAR augmented reality display that transforms any surface into interactive environment
* Writing software C++ library for 3D interface sensing
* Developing software for 3D gesture recognition using depth sensors

[Summer 2012] NASA-JPL (Jet Propulsion Laboratory, California Institute of Technology)

* Software development in C++ and Linux environment for automated TriATHELETE robot for manned Martian, lunar, asteroid exploration
* Implemented 3-D stereo photogrammetry vision software involving fiducial marker system
* Mars Science Laboratory Curiosity documentation software for support of ground operations sequencing software

[Summer 2011] NASA-JPL (Jet Propulsion Laboratory, California Institute of Technology)

* Software development in C++ and Linux environment for automated TriATHELETE robot cargo manipulation and robot mate docking
* Vision software development involving fiducial marker system

[2011-2012] Westlake Software Team

* + - Team Captain and Team Founder
    - Lead Programmer
    - Programming competition participation
    - Taught team C programming

[2010-2012] FRC Robotics Teams 2272 and 3863 Conejo Valley Robotics

* + - Lead Computer Vision Programmer and Autonomous Control System Engineer
    - Developed holonomic drive algorithm in java
    - Implemented vision target tracking in OpenCV Java with autonomous routines and intuitive user interface for robot commanding

**Technical Skills:**

Languages: C++, C, Java, OpenCV

Applications: Eclipse, NetBeans, MS Visual Studio, Photoshop

Operating Systems: Linux, Windows