Alexander P. Chu

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Education

University of California, Berkeley   Berkeley, CA
Electrical Engineering and Computer Science (EECS) Major   June 2016

El Segundo High School   El Segundo, CA
Graduating in June of 2012   June 2012
- GPA: 4.63

Experience

Northrop Grumman Corporation   El Segundo, CA
Software Engineering HIP Intern   February 2012 – June 2012
Worked with Software Engineering team on mission control software
- Analyzed Delaunay Triangulation program for corner cases
- Developed proficiency in C++ and MATLAB
- Participating in the Airplane Design and Remote Control Demo course

Mattel Corporation   El Segundo, CA
Global Information Technology Intern   November 2011 – January 2012
- Implemented PrePlan Database and user interface
- Designed Electronic Project Management Plus logo

Other Activities

FIRST Robotics Team 1759   El Segundo High School
Co-President   April 2011 – April 2012
Directed team operations through the 2012 FRC robotics competition season.
- Led Swerve Drive mobility system development initiative
- Finalized CAD models for machining
- Developed 2012 financial plan and build schedule
- Redefined team roles and command structure

Lead Programmer   September 2009 – June 2012
Developed real time robot control software on the Compact RIO platform.
- Developed team LabVIEW proficiency
- Perfected robot target tracking and image processing algorithms
- Integrated sensor data and actuation in PID motion control
- Transferred excess robot processing tasks from cRIO to a remote workstation
- Instructed new programmers for the 2013 team

Additional information

- Programming Languages: Java, LabVIEW, Visual Basic, Javascript, HTML5, Python
- Other Software Proficiencies: vim, GIMP, Autodesk Inventor (CAD), Adobe Dreamweaver, Bootstrap
- Languages: English, Spanish, Spoken Cantonese
- Interests: Robots, StarCraft II, Recreational Mathematics