Alan Casallas

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Education

Massachusetts Institute of Technology (MIT)   Cambridge, MA
Candidate for Bachelor of Science in Electrical Engineering and Computer Science   June 2017
GPA: 5.0/5.0

- Relevant coursework: Algorithms, Computer Architecture, Math for Computer Science

Skills

Programming: Java, Python, C, HTML5, MATLAB and LaTeX
Foreign Languages: Spanish
Other: Experienced in PC and network troubleshooting

Experience

University of Washington   Seattle, WA
Software/Firmware Developer   June-August 2014

- Participated in a research project to develop an electronic wrist band to detect the onset of tremors in tremor patients.
- Programmed an MSP 430 Microcontroller in C to sample accelerometer and gyroscope data from a serial board and transmit the data via Bluetooth.
- Programmed an Android application in Java to read the data transmitted by the serial board and display it in human-readable format. Created a live graph for use in the app from graphics primitives using the SurfaceView and Canvas elements.

Myriad Tech Solutions (MTS)   New York, NY
Technical Support Specialist   September 2012 – August 2013
- As a managed services provider, MTS handles the IT needs of medium-sized Manhattan businesses.
- Administered Active Directory, configured Cisco routers, and configured Sonicwall Firewalls for multiple sites.
- Communicated with end-users and explained technical concepts when network difficulties occurred.

Projects   Cambridge, MA

MIT BattleCode Programming Competition   January 2014

- Programmed AI army in Java capable of path detection and heuristic decision making.
- Designed army to collect resources and stop the advances of the opposing team's programmed army.

MIT Autonomous Robot Design Competition   January 2014

- Programmed and built an autonomous Arduino-controlled robot in C.
- Designed robot to collect rings from a tower and dispense them into a goal zone as part of a competition.

Portfolio

- GitHub Profile: https://github.com/acasallas
- Personal projects and coding samples available at: http://alancas.com/portfolio.html