Matthew Kirk

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Objective

Seeking entry-level electrical engineering position.

Education

BS in Electrical Engineering – Brigham Young University **–** April 2016
GPA: 3.65

Skills/Accomplishments

- Member of IEEE Eta Kappa Nu Honor Society.
- Relevant courses include Control Systems, Flight Dynamics, Signal Processing, Digital Communication, Circuit Design, Embedded Programming, and Electromagnetics.
- Programming/Programs: MATLAB/Simulink, C++, C, Python, Object Oriented Design, LTSpice, PHP, MYSQL.
- Use of Oscilloscopes, Multimeters, Power Supplies, and Function Generators.
- Strong knowledge of Windows operating systems (XP, 7, 8, 10) and Mac. Comfortable with Linux.
- Skilled in the use of Microsoft Office including styles to manage large documents.
- Co-Captain: HS Varsity Basketball. Learned leadership, teamwork, and discipline.

Projects

Robot Soccer Senior Project

- Design control algorithms so that two robots can play soccer autonomously against other robots.
- Familiar with PID control and path planning.
- Learning Kalman Filter Design for vision guided navigation with delays.

Laser Tag Junior Project

- Built laser tag system from beginning to end.
- Designed and built analog receiver and transmitter boards.
- Designed digital signal processing Algorithm using Matlab.
- Implementing the digital signal processing Algorithms as embedded C code.

Work Experience

Computing Specialist/Computer Support | McKay School of Education | Provo, UT   2014 - Current

- Manage, maintain, and improve internal website and database using HTML, CSS, Javascript, PHP, MYSQL, and version control.
- Manage Linux (Ubuntu), Windows, and Mac servers.
- Troubleshoot faculty computer and software problems.
- Handled security measures such as applying certificates, managing passwords, and Active Directory permissions.
- Manage deploy systems (SCCM, Casper, Group Policies).
- Trained new employees on procedures and technologies.
- Thanked by faculty for hard work and assistance.

Technology Management | 24 Hour Fitness | Carlsbad, CA   2014

- Doubled average computers completed nightly.
- Imaged/updated computers from Windows XP to Windows 7 remotely.
- Used Dameware for remote operations, Altiris for client management, and Remedy for ticket management.

IT Operations | Guajome Park Academy | Vista, CA   2012, 2014

- Wrote a batch script to automate updating Java on computers remotely.
- Set up school technology (phones, computers, projectors) to be ready for upcoming year.

Computer Science TA | Brigham Young University | Provo, UT   2014

- Helped students complete lab assignments in C++ by explaining concepts and assisting in debugging code.
- Received positive anonymous ratings from students.