Nathan Muramatsu

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| Objective | A challenging job, utilizing Electrical Engineering skills. |
| Education | **College of Engineering, Forestry & Natural Sciences Flagstaff, AZ**  **Northern Arizona University**  Degree Expected: Bachelor of Science in Engineering **Electrical Engineering**  Expected to graduate **May 2011**.  Cumulative GPA 3.43/4.0  **Mid- Pacific Institute**  High School Diploma **Honolulu, HI**  Graduated: May 2007 |
| Academic projects | **Engineering design:**   * Working with multidisciplinary teams to build, program and test Lego based robots. * The robot and program utilized infrared communications, sensors, and motors. * Example challenges include line-following and color identification to transport a spoon around a course and display a distance at the end of the course.   **Signals and Systems:**   * The use of MATLAB to calculate and plot signals using mathematical   formulas derived in class.   * + Convolution, Fourier series, impulse response, time and frequency domains.   **Fundamentals of Electromagnetics Lab:**   * To physically interact and study electromagnetic concepts in a team format.   + Physics and design are discussed and presented after each group project.   + The examination of  and how magnets create current.   + The use of transformers to demonstrate induction in a handmade generator.   **Intro to EE & Fundamentals of Electronic Circuits Lab:**   * In these classes we designed and tested CMOS digital and analog circuits.   + Example designs include the nand4, xor, and inverter circuits. |
| Software | **Programming**: C, C++, VHDL, Assembly, Java, HTML, Unix, and MATLAB. **Mentor Graphics CMOS IC design**: schematic capture, simulation, layout and parameter extraction, VHDL simulation. |
| Selected  Coursework | Power Systems, Computer Engineering, Electromagnetics, Signals and Systems, Electronic Circuits, Engineering Design: Microprocessors, Methods, Intro to EE, Programming for Engineering and Science, Computer Science, Digital Logic, Electronics, Design Process, Engineering Analysis II,  Embedded Control, Communication Systems, Project Design Procedures, Control System-State Variable Meathods, Thermodynamics. |
| Awards received  Honors  Organizations  Non-academic  projects Volunteer experience | Northern Arizona University, Dean’s list 2007-2008.  Mid-Pacific High School Dean’s list 2006-2007.  National Society of Collegiate Scholars 2008.  Boy Scout’s of America, Eagle Scout, 2005.  Boy Scout’s Eagle Project: The construction of a bulletin board for a local elementary school.  Numerous community services with the Boy Scout’s of America, Mid- Pacific Institute,  The Cathedral of St. Andrew (Institute of Human Services),  Northern Arizona University food concession & cash register for sporting events. |
| References | Dr. Niranjan Venkatraman, Professor of EE. NAU. 928-523-0373 Niranjan.Venkatraman@nau.edu Dr. Allison Kipple, Professor of EE. NAU. 928-523-5303 allison.kipple@nau.edu |
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