John Miscevich

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Summary of Qualifications

- Northern Arizona University Bachelor of Science in Electrical and Computer Engineering, two minors
- Cumulative GPA of 4.00/4.00
- Legitimate engineering experience in research and development for Northern Arizona University

Education

Northern Arizona University, Flagstaff *August 2013-Present*
Bachelor of Science in Electrical Engineering with Computer Engineering Emphasis
Minor in Mathematics, Minor in Computer Science *Anticipated Graduation May 2017*
GPA: 4.00 Honors Student Dean's List – 7 semesters

Relevant Coursework:
Digital Logic, Design of Digital Subsystems, MSI and LSI Circuits, Design of State Machines, Engineering Design, Programming for Engineers, DC and AC Circuit Analysis, Operation Amplifiers, Transducers, Transformers, AC Power, Statistical Analysis, Computer Science – Object Oriented Fundamentals, Engineering Process, Electronic Circuits, Data Structures, Matrix and Vector Algebra, Transform Methods, Fourier Analysis, Static Electric and Magnetic Fields, Time Varying Electromagnetic Fields and Maxwell's Equations, Semiconductor Physics, Transistors, Design and Testing of CMOS Logic, Amplifiers, Laplace and Z Transforms, Signal Sampling and Filtering, Linear Transformations, Abstract Data Structures, Web Programming, Mobile Application Development, Virtual Reality, Complex Variables

Skills

Software: MATLAB, Java, Python, PSPICE, Arduino Uno Microcontroller, 68000 Assembly Language, Mentor Graphics (PYXIS), Maxwell 3D, HTML, CSS, Altera Quartus, Objective C, Quartus Prime, ModelSim, VHDL, Graphical Debuggers, Atmel Studio, DipTrace, Source Code Repositories, Embedded C, Unity Engine, PHP, Visual Studio, Virtual Reality, Android Studio

Hardware: Arduino Uno Microcontrollers, MSP430 Microcontroller, Oscilloscope Analysis, Waveform Generators, Digital and Analog CMOS Circuits, Cyclone V Developmental Board, Digital Multimeters, Surface Mount Soldering, Hardware Design of Computer Systems, PCB Design, On-Board IC Selection

General: Digital Logic, Differential Equations, Statistics, Discrete Analysis, Interpersonal Skills, Research Skills, Oral and Written Communication (even to non-technical user base), Proficient at keeping an extensive and detailed engineering logbook, Work well independently but also cohesively in team environments, Professional Writing, Interdisciplinary Team Skills, Linear Algebra, Signal Analysis

Technical Projects

Virtual Reality and Data Analysis (Senior Capstone Project)

- Utilizes virtual reality to display and analyze large data sets of information collected from military equipment testing
- Integrates motion controls and tracking to allow the user to physically manipulate the graphical representation of data sets

Experience

Implantable Wildlife Bio-Datalogger (Research and Development NAU) *April 2016 – January 2017*

- Research and development of implantable datalogger used to track bio-data such as temperature and acceleration of land animals, with wireless data offload (Northern Arizona University)

Marine Solar Energy Harvester (Research and Development NAU) *April 2016 – January 2017*

- Research and development of implantable solar panels to supplement and/or sustain wildlife dataloggers on marine animals during long deployments (Northern Arizona University)