Johnathan J. Nielsen

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EXPERIENCE

Firmware Engineer 3 March 2014 - September 2016
Firmware Engineer 2 August 2010 - February 2014
Derive Systems (formerly Bully Dog Technologies) American Falls, ID

- Automotive performance electronics
- Product support software

Undergraduate Researcher Summer 2010
MAS-net REU-CSOIS, Utah State University Logan, UT

- Wind profiling using multiple unmanned aerial vehicles

Undergraduate Research Assistant August 2009 - December 2010
CSOIS, Utah State University Logan, UT

- AUVSI Competition Team Captain
- Development of unmanned aerial vehicles for various civilian applications

Undergraduate Researcher Summer 2009
MAS-net REU-CSOIS, Utah State University Logan, UT

- Tactical coordination of multi-agent autonomous systems.

SKILLS

Programming Languages: C, C++, C#, Python, PHP, Qt, Assembly

Hardware Platforms: dsPIC/PIC, ARM, 8088, 8051, Atmel

Software: MS Office, MATLAB, Eagle, Visual Studio, Qt Creator, git

EDUCATION

Bachelor of Science, Electrical Engineering December 2010
Utah State University, Logan, UT
Minors: Mathematics, French

AWARDS

1st Place Utah State University Senior Design Competition Spring 2010

- Real-Time Target Recognition System for Unmanned Aerial Vehicles

Undergraduate Research and Creative Opportunities Grant Spring 2010

- Real-Time Target Recognition System

Utah Engineering and Computer Science Program Scholarship Spring 2010

Engineering Undergraduate Research Program Grant Fall 2009

- Wind Profiling Using Multiple Unmanned Aerial Vehicles

Utah State University Dean's Scholarship 2003-2010

PUBLICATIONS

Automated Social Coordination of Cyber-Physical Systems with Mobile Actuator and Sensor Networks July 2010
International Conference on Mechatronics and Embedded Systems and Applications