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## Academic Highlights

Dual Bachelor of Science in Electrical Engineering and Physics at The University of Alabama May 2015  
Minor in Mathematics at The University of Alabama May 2015  
GPA: 4.0/4.0

## Work Experience

- Microsoft – Software Developer II (FTE) June 2015
- Develop traditional machine learning and deep learning models to solve business and natural language processing (NLP) problems
  - Design, implement, and maintain a question answering engine for technical questions
  - Design, implement, and maintain a cloud database sizing recommendation engine
  - Design, implement, and test an autonomous driving simulator leveraging the Unreal 4 Engine
  - Design tutorials to demonstrate the usage of Azure technologies for training deep learning models for autonomous driving
- NASA Glenn Research Center– Software Developer May-Aug 2014
- Designed, implemented, and tested preprocessor code integrating the Pointwise mesh generation software and the Glenn-HT Multiblock computational fluid dynamic solver
  - Evaluated and augmented the Glenn-HT graphical user interface software, adding grid visualization capabilities.
  - Simulated experimental shroud designs for the SEA multi-wire probe using the Glenn-HT solver
- Argonne National Laboratory – Software Engineer May-Aug 2013
- Designed, implemented, and tested user interface software for the Digital Alpha Beta Radioactive Assay System (DABRAS-II) low level radiation counting system
  - Evaluate and test existing hardware interface system
  - Develop a quality assurance testing protocol, and deploy initial units to the field for beta testing
- Robotic Automation Researcher Dec 2011 – June 2015
- Design and implement an autonomous control system for a robotic lunar excavator
  - Design, implement, and test computer vision algorithms for robotic localization in harsh environments
  - Model and fabricate robotic parts

## Technical Skills

### Programming Languages

- Expert: C, C++, C#, Python, T-SQL, U-SQL
- Proficient: Java, JavaScript

### Software Packages

- Python: Keras, Tensorflow, CNTK, Scikit-Learn, Numpy, Scipy, Pandas, Matplotlib, Django, NLTK
- C/C++: ROS, OpenCV, PCL, Boost, Unreal Engine, Eigen

## Academic Publications:

- Distributed Deep Reinforcement Learning on the Cloud for Autonomous Driving
  - Authors: M. Spryn, A. Sharma, D. Parkar, M. Shrimal
  - Presentation: International Conference on Software Engineering, 2018
- The Development of Synergistic Optoelectronics Based on Zinc Oxide Semiconducting Nanowires
  - Authors: A. Gupta and M. Spryn
  - Presentation: International Microelectronics and Packaging Society, 2012
- Design of Nanosensing Platform Based on Zinc Oxide Nanowire Arrays
  - Authors: A. Gupta, M. Spryn, B. Kim
  - Conference Publication: International Symposium on Circuits and Systems, 2012
- Packaging and Sensing Platform using Opto-electronic Zinc Oxide Nano-Heterostructure Integration
  - Authors: A. Gupta, M. Spryn, B. Kim
  - Conference Publication: Electronic Components and Technology Conference, 2013