DOMINICK HAMBRICK

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EXPERIENCE

Georgia Tech Research Insititute   Feb 2014 - Present
Research Scientist I   *Huntsville , Al*

In my role as a Research Scientist , I have had the pleasure of contributing to a number of technical projects, ranging from developing software platforms that process and visualize Lidar data, to porting legacy Fortran code to CUDA C.

Currently I'm serving on a software team to rearchitect a networking test tool for the US Army's IBCS program. In this role, I am responsible for developing and testing a C++ distributed backend. I've also engaged in front end web work for visualizing real-time data.

Some of previous my work includes:

- Ported performance critical sections of a legacy Fortran simulation platform to CUDA C.

- Implemented advanced mesh parametrization algorithms in C++ for the MDA.

- Helped support refactor of a GUI for a realtime Radar Display for the Spanish Government.

- Established a Software Defined Radio Testbedy for the Applied Systems Lab in anticipation of future costomer need.

- As culmination of the effort of establing the SDR Testbed, I developed a prototype cognitive radio platform using GNURadio and Python/Numpy.

- Implemented the low level networking and memory interfaces in C++ for a real-time Lidar data processing and visualization platform. I also architected and implemented the multithreading scheme for this platform.

Georgia Tech Research Insititute   Jan 2012 - Feb 2014
Research Engineer   *Huntsville, AL*

- in an IEEE Journal.

TECHNICAL STRENGTHS

Computer Languages	C, Cuda C,C++,Python , Javascript, Bash ,Matlab
Protocols & APIs	JSON, REST,YAML,Google Protocol Buffers ,NUMPY, GNU Radio
Databases	MongoDB
Tools	Git,Jira,SVN,CMake, Vim, Emacs
Frameworks	Boost , Boostrap , Node.js , gRPC , opengl

EDUCATION

University of Alabama, Huntsville   **Graduation Date: Dec 2010**
B.S. in Physics
Minor in Mathematics

Overall GPA: 3.1

Georgia Institute of Technology   **Graduation Date: N/A**
M.S. in Computer Science