Graham Lanier Fletcher

CONTACT INFORMATION

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EDUCATION

The Georgia Institute of Technology, Atlanta, Georgia

B.S., Electrical Engineering

Minor in Mandarin Chinese

- Studied abroad at Shanghai Jiao Tong University, Summer 2007
- Seven semesters of Chinese language study

WORK EXPERIENCE

Savannah River National Laboratory (SRNL), Aiken, South Carolina

Summer Intern **Summer 2010**

- Re-wrote the control software for SRNL's Universal Tritium Transmitter (UTT); software will likely be reused in as many as fifty devices at multiple DOE facilities
- Utilized modern networking techniques to replace outdated RS232 communications; added remote management capabilities that could save over $200k each per year
- Compiled an entire Linux distribution from scratch configured to function within the limitations of the UTT's embedded controller hardware

Summer Intern **Summer 2009**

- Developed a magnetic field control algorithm that cut mass spectrometer sampling time in half; software is currently employed at three national laboratories
- Represented SRNL at a wireless security conference for the NNSA; compiled a document outlining over 200 requirements for a proposed NSA security protocol for transmitting classified data based upon FIPS, IETF and NIST specifications
- Wrote a program to plot statistics for over 200 million pressure sensor readings

ESi Acquisition, Inc., Augusta, Georgia

Summer Intern **Summer 2008**

- Designed a modernized framework for ESi's WebEOC product suite
- Developed multiple working examples of this framework's concepts and seamlessly integrated them into the existing WebEOC application
- Facilitated a two hour demonstration via live video conference to the company's top executives and more than fifty programmers, representatives and regional managers across the United States

Summer Intern **Summer 2006**

- Developed a WebEOC plugin for generating barcodes
- Explored methods for providing a more dynamic user experience in WebEOC
- Presented work to the company's owners and head developers

TECHNICAL SKILLS

Programming Languages: C, C++, Objective-C, Java, JavaScript, HTML, Lua, PHP, Perl, Python, UNIX shell scripting, Visual Basic, assembly language and others

Applications: MATLAB, LabVIEW, Autodesk Inventor, Xcode, Visual Studio, OrCAD, Mathcad, Microsoft Office, Lotus Notes and others

Additional Skills: digital control, embedded device programming, internetwork programming, UNIX/Linux programming, web application development

RESEARCH INTERESTS

Computer vision, automotive control systems, networked control, multi-agent robotic systems, pattern recognition, navigation