Russell Bryan

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Objective

Seeking internship allowing me to gain experience in the fields of mathematics and computer science.

Education

Arkansas School for Mathematics, Sciences and the Arts, Hot Springs, AR 6/2014 Concentrations in Physics, Mathematics, and Computer Science

University of Oklahoma, Norman, OK

9/2014 - Present

Pursuing an undergraduate degree in Mathematics GPA 3.68 overall

Experience

Software Engineering Intern, National Instruments,

Austin, TX

Summer 2015, 2016

- Wrote driver features making a product more suitable for use in physics experimentation at a major national laboratory
- Currently implementing new driver features for SMUs.

Student Research, FPGA Based Detection of Coincident Photons,

University of Oklahoma

Fall 2014 - Spring 2015

• Wrote VHDL that doubled the number of channels on an existing detection circuit

Student Research, Brownian Motion as a Source of Entropy for the Generation of Random Numbers, ASMSA Fall 2013 - Spring 2014

 Wrote C program to track particles of milkfat suspended in water and tested data gathered as a source of entropy

Personal **Projects**

Vole Lisp: Language written from scratch in Java.

Spring 2016

 Wrote a simple interpreted LISP 1 with first class functions, tail-call optimization, bignums, and basic macros.

Bitcoin Solver: Using a SAT solver to solve Bitcoin

Ongoing

• Currently writing a program in scheme that attempts to translate the Bitcoin proof of work function into a boolean equation

RPL Programming Language: a simple programming language.

Fall 2015

• Wrote a stack based reverse polish lisp in C.

Academic Honors

Intel Science and Engineering Fair Finalist 2014

Association for Computing Machinery 4th Place Award ISEF 2014 Yale Science and Engineering Association Science Fair Award 2013

National Merit Finalist

Skills

Programming Languages:

C/C++, Bash, Scheme (Lisp), Java, Python, Perl,

Software:

R GNU Bison (Yacc), Flex (Lex), Linux/Unix, Win-

dows, GNU Toolchain and build process, Git, Per-

force, Labview