Sean Krail
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COMPUTER ENGINEERING UNDERGRADUATE

Highly motivated senior computer engineering undergraduate seeking both full-time and internship opportunities in a wide range of fields. Interested in leveraging mathematical modeling experience, programming knowledge, instruction set architecture study, and hardware design skills to positively contribute to an organization's objectives, while also gaining valuable industry and life experiences.

SKILLS/EXPERIENCE (*roughly* grouped by comfortability)

+ 5	C++ | Java | Calculus | JavaScript | Cadence | MIPS | Unix | SIMetrix | Node.js | Pipelining	
4	Microcontrollers | Breadboards | Android | KiCad | Clang's LibTooling | Branch Prediction | OpenMP	
3	Software Development | Integrated Circuit Design | CISC Computer Architectures | Signal Analysis	
2	Computer Networking | Spice Simulations | Field Theory | Probability & Statistics | FPGAs | C	
- 1	LLVM | Data Structures | Computer Networking | Systems of Differential Equations | VHDL	

RELEVANT COLLEGE COURSES (graduate courses are underlined)

Microcircuit Analysis I & II | Software Engineering | Mathematical Modeling | FPGA & PCB Prototyping
Computer Networking | Field Theory | Radar Systems | Random Signals and Noise | VLSI Systems
Senior Design I & II | Computer Engineering | Microprocessor Systems | Parallel Computer Architecture

EDUCATION

University of Delaware | Newark, DE | Spring 2016
Bachelor of Science in Computer Engineering with Computer Science Minor
Dean's List Spring 2015 with a 3.9 GPA (noncumulative) and Fall 2015
Souderton Area High School | Harleysville, PA | June 2012
AP Courses: Calc AB | Microeconomics | Macroeconomics | Statistics | U.S. History

WORK EXPERIENCE

Intern | University of Delaware | Spring 2016 *(present)*
Solving Non-Uniformity Correction (NUC) in a projector's 2-D pixel array.

Research Intern | University of Delaware | Summer 2015
Wrote a coarse-grain OpenMP task-dependency graph generator utilizing Clang's LibTooling library in C++.

ACTIVITIES AND INTERESTS

Future Business Leaders of America | 2 years | Souderton Area High School
High School Volleyball | Varsity | Souderton Area High School

Longboarding | Hills
Hiking | Nature
Reading | Books