Cameron Compton

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EDUCATION

Rose-Hulman Institute of Technology Terre Haute, IN
Bachelor of Science in Computer Engineering August 2015 – May 2019
Computer Science minor
Honors: Merit based Scholarship Recipient, Dean's List
Relevant Coursework: Computer Architecture, Parallel Programming, Machine Learning, Embedded Systems, Engineering Design, Digital Signal Processing, High Speed Digital Design, Communication Networks, Analog and Digital Circuit Analysis

PROFESSIONAL EXPERIENCE

Intel Corporation
Portland, OR
Development Tools Software Engineer January 2020 – Current

- Designing, implementing, and supporting new validation tools resulting in streamlined workflows and widespread adoption of new methodologies
- Working between cross functional groups of designers and architects to build a data pipeline which aggregates and organizes cycle accurate RTL simulation data, used to enable performance verification
- Identifying areas where automated code generation can be leveraged to accelerate validation collateral development and increase stability
- Developing various pieces of validation collateral, including trackers, checkers, and interfaces to functional models
- Debugging test failures in RTL simulation at the core and SoC levels

Intel Corporation
Portland, OR
SoC Design Engineer: Pre Silicon Validation December 2019 – January 2020

- Writing tests and debugging flows at the physical and transaction layers between multiple IPs
- Implementing System Verilog assertions according to interface specifications to thoroughly cover illegal conditions

SKILLS

Proficient in languages: Python, C, C++
Experienced with: Linux, Git, GNU toolchain, CI/CD, Low Level Programming, CUDA, Autogenerating code

PERSONAL PROJECTS

CUDA Ray Tracing Engine

- Written entirely from scratch, including vector math libraries; Simulates shapes made of two way mirrors
- While still being far from perfect, the CUDA kernel achieves a 100x speedup compared to the serial implementation

INTRESTS – Woodworking, Fishing, DJing, Skiing, Personal electric vehicles