

Samuel Crow

619-559-8016

sacrow@ucsc.edu

github.com/samuelkcrow

EDUCATION

University of California, Santa Cruz – Santa Cruz, CA
Ph.D. in Computer Science & Engineering (in progress)

Started September 2021
Advisor: Matthew Guthaus

Calvin University – Grand Rapids, MI
B.S. in Engineering, Electrical & Computer Concentration

May 2021
GPA: 4.0/4.0

WORK EXPERIENCE

Flex-N-Gate Corporation
Grand Rapids, MI

Electronics Engineering Intern
Jun 2020 - Present

- Automated cost estimating process for electronics, reducing administrative overhead by 90%
- Performed research and wrote technical documentation related to Altium (ECAD software)
- Created a tool for estimating PCB layout areas from schematics and trained engineers in its use
- Reverse-engineered and evaluated competitor's circuit architectures for use in future designs

SoundOff Signal
Hudsonville, MI

Test Engineering Intern
Jun 2019 - Dec 2019

- Designed test fixtures and an end-of-line test station using SolidWorks, which are now used to test and validate millions of dollars in parts per year
- Standardized the design process for future electronic assembly test fixtures
- Collaborated with four interdisciplinary engineering teams on requirements and ramp-up integrations for new testing equipment

Calvin University Information Technology
Grand Rapids, MI

Help Desk Technician
Sep 2018 - May 2019

- Diagnosed and resolved technical support issues related to networking, computer hardware, educational software, and user accounts for students, faculty, and staff

Calvin University Engineering Department
Grand Rapids, MI

Teaching Assistant
Sep 2018 - Dec 2018

- Guided students in the use of Autodesk CAD tools for 2D and 3D design
- Graded assignments related to modeling skill development and facilitated test administration

Science Applications International Corporation
San Diego, CA

Technical Intern
Jun 2018 - Oct 2018

- Developed software for virtual assistants which interacted using language processing for demonstration of diverse voice recognition use cases
- Researched and integrated several cloud services into a single tool
- Presented key findings and prototypes to senior company executives

PROJECTS and HOBBIES

- Currently working on asynchronous SRAM generation in the OpenRAM memory compiler (see openram.org)
- Contributed code to an educational tool for the RISC-V instruction set architecture
- Fluent in French language and well-versed in French culture