

# Steven Siwinski

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## EDUCATION

### UNIVERSITY AT BUFFALO

#### BS IN COMPUTER ENGINEERING

Expected May 2017 | Amherst, NY

Current GPA: 3.55

Conc. in Microcontrollers and Embedded Systems

### VIRGINIA TECH

#### STUDIED ELECTRICAL ENGINEERING

Aug 2012 - May 2013 | Blacksburg, VA

Cumulative GPA: 3.66

### NIAGARA COUNTY COMMUNITY COLLEGE

#### AS IN COMPUTER SCIENCE

#### AS IN LIBERAL ARTS: MATH AND

#### SCIENCE

Grad. Dec 2015 | Sanborn, NY

Cumulative GPA: 3.83

## COURSEWORK

### UNDERGRADUATE

Microprocessor System Design

UNIX Systems Administration

Computer Architecture

Data Structures

## SKILLS

### PROGRAMMING

C/C++ • Python • Bash • Java

Verilog HDL • ARM Assembly

MIPS Assembly •  $\LaTeX$

Familiar with:

Android • JavaScript • AngularJS • CSS

### HARDWARE

•Familiar with ARMv7 architecture

•Implemented Verilog HDL on FPGAs

•Soldering experience

## WORK EXPERIENCE

### UNIVERSITY AT BUFFALO | UNDERGRADUATE TEACHING ASSISTANT

Aug 2016 - Present | Amherst, NY

- CSE111 - Great Ideas in Computer Science
- CSE341 - Computer Organization
  - Taught recitations twice a week 20 - 30 students
  - Responsible for grading exams, projects, and other class material
  - Held office hours twice a week

### NIAGARA FRONTIER COUNTRY CLUB | CHEF

May 2007 - Nov 2015 | Youngstown, NY

- Helped organize and execute banquets
- Responsible for ordering inventory
- General cook for breakfast/lunch/dinner service

## RESEARCH

### ILEARNS | UB UNDERGRAD RESEARCH

Aug 2016 - Present | Amherst, NY

Worked with Dr. Kris Schindler to create and revise iLearns, a microcontroller-based interactive learning system for pre-K through grade 12. It is currently being used as an interactive spelling tool at Alden Primary School. Future plans of extending the platform to incorporate an interactive geography tool.

## PROJECTS

### MS. Q\*BERT | RECREATION OF THE GAME, Q\*BERT IN ARM ASSEMBLY

A graphical recreation and reinterpretation of the classic arcade game, Q\*Bert written in ARMv7 Assembly. Implemented on an Embedded Artists LPC2138 development board and output to a serial console. Features color graphics, life count LEDs, RGB game status LED, and even a hidden game mode.

### GUITAR EFFECTS PEDAL | DESIGNED PCB LAYOUT, HAND SOLDERED

A guitar Distortion effects pedal. Designed case, PCB layout, and hand soldered. Made Modifications to circuitry to achieve desired output.

### XINU | MODIFIED THE XINU EMBEDDED OPERATING SYSTEM

Added shell commands, Wrote a chat client that can communicate between two serial terminals.

## AWARDS

2012 NCCC Foundation The Raymond Math Award