

**Sam Shue**  
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**Objective:** To obtain an occupation within the field of computer engineering to further my skills and knowledge, particularly within the embedded systems, robotics, or computer architecture field.

**Education:**

B.S., Computer Engineering  
University of North Carolina at Charlotte

M.S., Electrical Engineering (expected May 2014)  
University of North Carolina at Charlotte

**Skills and Proficiencies:**

Coding Language Proficiencies:

- C/C++
- Java
- VHDL
- MIPS Assembly Code
- VB Scripting

Development Software Proficiencies:

- Xilinx
- Modelsim
- Pspice
- MATLAB
- AVR Studio

Other Software Proficiencies:

- Microsoft Office
- Adobe Photoshop

**Projects:**

- Designed a single cycle, 8 bit MIPS processor
- Designed an 8 bit multiplier and implemented it using digital logic gates
- Designed a circuit using VHDL to perform convolution
- Wrote a program using C that detects edges within a black and white image
- Built a search and rescue robot for IEEE Southeastcon Hardware Competition

**Achievements:**

- Winner of the Anna M. Johnson Hats Off! Academic Achievement award

**Relevant Classes:**

- ECGR 2181 – Logic Design I
- ECGR 3181 – Logic Design II
- ECGR 3183 – Computer Organization
- ECGR 4181 – Computer Architecture
- ECGR 4146 – Intro to VHDL
- ECGR 4101 – Embedded Systems
- ECGR 2255 – Digital Design Lab
- ECGR 3123 – Data Communications I
- ECGR4161 – Introduction to Robotics
- ECGR 4433 – VLSI System Design

**Work Experience:**

- Staples, Concord, NC (2009 –present)

Easy Tech Associate. Troubleshoot and repair customer's computers, sale electronics and software, technical support.

- Sam's Club, Concord, NC (2008-2009)

Front End Associate. Load customer's cars with their purchases, return shopping carts, quiet public disturbances, clean entrance area and parking lot.

- Magnolia's Catering, Concord, NC (2007-2008)

Catering assistance. Deliver and serve catering orders, prepare dining areas, clean equipment and dishes.