
STEVE GATES

Software and Embedded Systems Engineer

2529 Cruz Drive
Rapid City, SD 57702
(605) 391-0707
steve@gates.coffee

SKILLS

Software - Agile Scrum, C++, C, C#, Java, LISP, PHP, Python, Artificial Intelligence

Embedded Systems - AVR and Microchip development, DSP, FPGA, RTOS

Electrical - Circuit and PCB Design, Microwave Engineering, Electromagnetics

Business - Statistical Analytics, Economics for Managers, Financial Accounting

EXPERIENCE

Electrical and Computer Engineering Intern - Raven Industries, Sioux Falls, SD

Summer 2014

- Designed ZigBee wireless mesh network devices for industrial application.
- Utilized AVR development tools on custom PCBs.
- Rapidly designed electronics for high-static, high-vibration environment.

Software Engineering Intern - Raven Industries, Rapid City, SD

Summer 2013

- Designed an embedded device from hardware to software.
- Utilized Microchip PIC, C language, and CAN communication.

Software Engineering Intern - L-3 Communications CSW, Salt Lake City, UT

Summer 2012

- Developed a C++ sockets library for seventeen operating systems.
- Worked in teams on multiple-thousand-file codebases.

EDUCATION

HBX | Harvard Business School

CORE: Credential of Readiness

Summer 2015

CORE is a 120-150 hour certificate program on fundamentals of business, comprised of three courses - Business Analytics, Economics for Managers, and Financial Accounting.

South Dakota School of Mines & Technology, Rapid City, SD

Bachelor of Science, Electrical Engineering

Bachelor of Science, Computer Engineering

Minors: Computer Science and Mathematics

Aug 2010 - May 2015

GPA: 3.84

PERSONAL PROJECTS

Mechanized a hydrogen fuel cell, including fuel and electrical subsystems.

Built a video projector from parts and plywood; planning a new version.

Designing an automatic vegetable planter box.

ACCOMPLISHMENTS & HONORS

Chapter Founder of Lambda Chi Alpha fraternity Chapter TT M.

Finance Committee Chair, SDSM&T Student Senate, January 2012 to May 2013.

SDSM&T Magna Cum Laude Graduate, Dean's List All Semesters, 2010 to 2015.