Christopher Smith

Personal Data

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Objective: To gain experience in a work environment in a computer science field. Also to be challenged continuosly to improve my critical thinking, analyzing, programming, and math skills.

Education

May 2017 Bachelors of Science in Computer Science
May 2017 Bachelors of Science in Applied and Computational Mathematics
South Dakota School of Mines, Rapid City, SD

Elecvtives: Cryptography, Cybersecurity, Computer Graphics, Natural, and Parallel Computing

Programming Experience

Aug 2015-Present | **Senior Design (Project: UAV Landing Pad)**
- Programming a UAV to autonomously navigate a series of waypoints, takeoff and land autonomusly on a landing platform.
- Landing approches: Visual Homography and Reinfocement Learning

Jan-May 2015 | **Natural Computing (Final Project: Artificial Intelligence)**
- Created an AI to play the board game Puerto Rico using artificial neural networks
- The AI was improved through a genetic algorithm

Nov-Dec 2014 | **Parrallel Computing (Final Project: Image Processing)**
- Created a shared memory image processing library in Qt to benchmark performance
- Fast Fourier Transform, pixel, and mask based image operations were tested

Sept 2011-Present | **SDSMT Robotics Team**
- Working as a team to design and build robots that can autonomously navigate courses for competitions based on input from sensors, GPS and cameras
- Focusing on programming camera interface with Opencv and ROS

Computer Skills

Programming Languages: C++, Python, Java, C#, SQL, Common Lisp
General Knowledge: Linux, BASH, Makefiles, LaTeX, Microsoft Office and VS

Work Experience

July 2012-Present | **Backroom Associate at Target, Rapid City SD**
Responsible for:
- Pulling merchandise down for stocking on the sales floor
- Placing extra merchandise in the appropriate areas in the stockroom

Volunteer Experience

SDSMT Robotics 2012-2015
- Helped boy scouts recieve their Robotics Merit Badge by teaching them about robots (mechanical, sensors, design, and programming)
- Assisted in teaching students programming and design so they could complete their challeges in First Lego League

JROTC 2006-2011
- Cleaned up Liberty Blvd twice a year
- Bought gifts for children with low income families in the school district around Christmass