Charles Rymal

16234 SW O'Neill Ct.
Tigard, OR 97223

(503) 720-6499
charlesrymal@gmail.com
www.charlesrymal.com

Objective

To obtain a position in the computer science field in order to apply and enhance knowledge gained through my passion for computer science.

Education

Master of Science in Mechanical Engineering

Oregon State University — Corvallis, Oregon
April 2012 to March 2015 — GPA: 3.91

Relevant Courses:

CS 271 - Computer Architecture and Assembly Language

Bachelor of Science in Mechanical Engineering

Oregon State University — Corvallis, Oregon
September 2007 to March 2012 — GPA: 3.78

Employment

Graduate Research Assistant — **September 2012 to September 2014**

Oregon State University - Corvallis, OR

- Worked with faculty and other students to design microchannel receivers for solar thermal power production
- Performed numerical simulations of heat transfer and fluid flow using commercial software
- Used C, Java, Python, Bash scripts, Make, and Tcl for automation, customization, and data analysis of numerical simulations

MECOP Engineering Intern — **March 2011 to September 2011**

Allied Systems Company - Sherwood, OR

- Managed several plant-wide manufacturing engineering projects with significant benefit for the company
- Designed various tooling, particularly welding fixtures, with consideration for ease of use and manufacturability
- Worked extensively with design engineers, manufacturing engineers, machinists, welders, and many others

MECOP Engineering Intern — **March 2010 to September 2010**

ATI Wah Chang - Albany, OR

- Designed material handling equipment for various applications
- Designed creative mechanical solutions to issues with existing machinery
- Worked with area operators, supervisors, mechanical engineers, and outside fabrication contractors

Skills

- 3 years of experience using CAD software (Solidworks and Inventor)
- experience using FEA, heat transfer analysis, and CFD software (Ansys and Star-CCM+)
- experience using geometric dimensioning and tolerancing
- proficient in several programming languages (c++, java, MATLAB, python)
- working knowledge of Microsoft Office (including Excel, Access, and Visual Basic)
- excellent written and verbal communication skills

applications	vim, Microsoft Visual Studio, Eclipse + ADT plugin, Microsoft Office
systems	Microsoft Windows, Red Hat, Debian, Ubuntu
programming languages	C/C++, Python, MatLab, x86 assembly, Java, VBA, HTML, Javascript, PHP, SQL, TCL, make, CMake, bash, lisp

Personal Projects

- 3D game engine (C++/python) (http://github.com/nebula-engine/Nebula/tree/neb67)
- CMake-like C++ project build system (python) (http://github.com/chuck1/python_build_system)
- Spreadsheet Web App (python) (http://github.com/chuck1/python/tree/master/projects/spreadsheet)

- N-Body Simulation/Visualization (C++) (https://github.com/chuck1/n-body/tree/test)
- Quadcopter Controller Simulation/Visualization (C++/python) (https://github.com/chuck1/quadrotor)