

Charles Rymal

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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
April 2012 to March 2015
Corvallis, Oregon
GPA: 3.91

Relevant Courses:

CS 271 - Computer Architecture and Assembly Language

Bachelor of Science in Mechanical Engineering

Oregon State University
September 2007 to March 2012
Corvallis, Oregon
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>)