

Elliott Capek

Resume

WORK EXPERIENCE

2013 - PRESENT

Computational Physics Project

Roundy Computational Physics Lab

I am working on a biological simulation of a motor protein using principles of physics and chemistry. Skills gained:

- Applying dynamics equations to simulating proteins
- Creating computational simulations using physics principles
- Programming experience in C/++, Python, LaTeX

2013 - 2014

Biophysics Lab Assistantship

Qiu Biophysics Lab

I worked in a biochemistry lab purifying proteins and preparing them for microscopy experiments. Tasks I did in lab:

- Growing proteins in an *E. coli* medium
- Conducting biochemistry lab procedures: protein purification, gel electrophoresis and preparing buffers
- Microscopy experiments using a Total Internal Reflection microscope

2011 - PRESENT

NPO Web Development

I design and maintain websites for a group of related nonprofit organizations, most notably Sisters of the Community. Skills learned on-job:

- Deploying custom sites using the WordPress CMS
- Customizing WordPress themes in PHP
- Managing hosting and domain name services for sites
- Working with my employer to create stylistic and usable site designs

2013-2014

Web Development

Adword Associates LLC

I worked for a web design company where I:

- Rapidly developed WordPress sites based on our client's specifications
- Managed hosting and DNS services for these websites

2012 - 2013

MATE Robotics Competition, Technical Lead

Willamette University

I was the technical lead for a college robotics team. Tasks I accomplished on the team:

- Designed mechanical and electrical systems for an underwater ROV
- Programmed rudimentary communication between different ROV systems
- Organized a 1400\$ team budget

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EDUCATION

2013 - PRESENT

Bachelor's Degree (transfer)

Oregon State University

PHYSICS

BIOCHEMISTRY

COMPUTER SCIENCE (MINOR)

GPA: 3.72

2012 - 2013

Bachelor's Degree

Willamette University

GPA: 3.73

TECHNICAL SKILLS

Basic	PHP, MATLAB, Javascript, GIMP, Mathematica, MySQL, Drupal, Robotics, Arduino, Soldering
Proficient	C/++, PYTHON, L ^A T _E X, Linux, git, WordPress, HTML/CSS

OTHER EXPERIENCE

2014	ICFP Programming Contest
2012 - 2013	Willamette University electronics lab assistant
2008 - 2012	FIRST Robotics Competition

GITHUB

github.com/elliottc12