

David Choy

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<http://davidchoy.me>

Education

9/2012 - 4/2014 **Stanford University** **GPA: 4.03/4.00**
M.S. Mechanical Engineering

9/2008 - 6/2012 **California Institute of Technology (Caltech)** **GPA: 3.8/4.0**
B.S. Mechanical Engineering with Honor

Work Experience

6/2014 - Present **Senior Software Engineer**
Laserfiche, Compulink Management Center, Inc.

- Technical Lead for Cloud Infrastructure team
- Deployed initial cloud suite to first users within 5 months
- Developed infrastructure that scales to automatically meet demand
- Coordinated clustering applications to increase availability and reduce costs around 50%
- Set up continuous deployment process to get checked in code to production in minutes
- Created tools to aid other teams' conversion from on-premises to cloud
- Migrated internal services to Docker containers to reduce number of servers
- Provided on-call support across multiple environments

6/2013 - 8/2013 **Software Engineering Intern**
Laserfiche, Compulink Management Center, Inc.

- Developed scalable cloud-based server monitoring and alert system using agile methods
- Created thick client to collect system metrics with Windows forms configuration app
- Programmed websites utilizing AngularJS to display information and administer settings

6/2011 - 6/2012 **Computational Fluid Mechanics Researcher**
California Institute of Technology

- Wrote Fortran module and MATLAB scripts to evaluate properties of porous media
- Learned Fortran to study governing dynamics behind molecular transport in fuel cells
- Presented results at 221st meeting of the Electrochemical Society in Seattle, WA

Selected Projects

4/2013 - 6/2013 **Wireless Tele-operated Robot and Controller**

- Designed sensing inputs and routed all circuit boards
- Negotiated communication protocol for interoperability among all controllers and robots

2/2013 - 3/2013 **Autonomous Battleship**

- Built autonomous mobile robot to shoot targets with Nerf balls
- Designed circuits for wheel encoders, to find IR emitting beacons, detect aligning tape
- Wrote module to communicate wirelessly with remote computer

5/2011 - 2/2012 **Dormitory Website and Directory System**

- Designed fully searchable directory and photo gallery with intuitive interfaces
- Wrote API for external access to directory

Skills

Programming Languages Experience with: Python, C#, Java, PHP, HTML, C/C++, Javascript, LESS/CSS

Software Visual Studio, PowerShell, Bash, SQL Server, PostgreSQL, Fiddler/Wireshark