

TIMOTHY OVERLY

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CAREER OBJECTIVE:

A development position that utilizes my strong applied engineering aptitude and analytical skills in creative ways to develop new products

COMPUTER SKILLS:

| Languages | Frameworks | Databases | Build Systems | Testing Systems | Other Syntaxes |
|--------------|---------------|------------|---------------|-----------------|---------------------------------|
| Java | Grails | PostgreSQL | Maven | JUnit | HTML |
| Groovy | EmberJS | Oracle | Ant | Mokito | CSS |
| Ruby | NodeJS | SQL Server | Ivy | Jenkins | Markdown |
| JavaScript | Sinatra | Redis | Grunt | Jasmine | LESS |
| CoffeeScript | Ruby on Rails | MySQL | Rake | CircleCI | SCSS |
| Bash | | MongoDB | NPM | Travis | XML |
| MATLAB | | | Gradle | | JSON |
| C | | | | | L ^A T _E X |
| SQL | | | | | |

| Deployment Servers | Operating Systems | Protocols | Version Control | Design Concepts |
|--------------------|-------------------|-----------|-----------------|-----------------|
| Tomcat | OS X | REST | Git | MVC |
| httpd | Linux | SOAP | Subversion | IoC |
| Google Cloud | Windows | SSL | | SOA |
| Heroku | | | | Agile |
| | | | | Scrum |

EXPERIENCE:

SPIDAWeb LLC

Columbus, Ohio

Lead Developer/Manager: Analysis Engineering and Software Development August 2007 to Present

- Managing a team responsible for the development, maintenance and support of the company's software products
- Designed and programmed multicomponent service-oriented web applications using the Grails framework.
- Wrapped external web services into common interfaces for a modular design
- Implemented continuous integration testing, code review and feature development cycles to support a more robust development process
- Tuned databases with more than five million entries for sub-second response times
- Specified and implemented a server-based license system in Ruby on Rails
- Wrote a finite element analysis package to determine loading and stresses in utility pole structures
- Programmed a graphical user interface in Java for the building, viewing and editing of utility pole structures

Los Alamos National Laboratory

Graduate Research Assistant: Engineering Institute

Los Alamos, New Mexico

May 2006 – July 2007

- Designed, built and tested small electronic devices for use in structural health monitoring applications
- Programmed in MATLAB and C to control external hardware for data acquisition and analysis
- Developed a sensor diagnostic algorithm for use with piezoelectric sensor/actuators and implemented it in software

Los Alamos National Laboratory**Los Alamos, New Mexico***Engineering Intern: Dynamics Summer School**June 2005 – August 2005*

- Worked as part of a multidisciplinary team to implement an algorithm that used natural frequencies to detect damage in a structure
- Correlated test results to a theoretical model for plant identification and controller implementation

Robert Bosch GmbH**Stuttgart, Germany***Praktikant: Central Research and Development Center**April 2001 – September 2001*

- Programmed a climate chamber measurement system using Visual Basic to improve data collection and decrease measurement time by eighty percent
- Developed a test protocol and programmed measurement systems to qualify new magnetic anti-lock brake sensors
- Designed and constructed fixtures for testing existing products within magnetic fields

EDUCATION:**University of Cincinnati****Cincinnati, Ohio***Department of Mechanical, Industrial and Nuclear Engineering***M.S. in Mechanical Engineering - June 2007****B.S. in Mechanical Engineering - June 2002**

- Structural Dynamics/ Advanced Vibrations
- Finite Element Techniques
- GPA: 3.7/4.0
- International Engineering Certificate
- GPA: 3.2/4.0

OPEN SOURCE PROJECTS:

- [*truck circuit*](#): (author) an arduino project with matching circuit diagram for a halloween costume
- [*apply*](#): (author) a small tool that can be used as a test for developer resume submittal
- [*classpath-helper*](#): (author) series of script tools to help diagnose classpath issues in java jars/wars
- [*ssl-helper*](#): (author) script to help generate self-signed certificates for apache tomcat and httpd
- [*jekyll-page-list-plugin*](#): (author) a simple plugin for Jekyll that list pages
- [*SHM Tools*](#): (contributor) a package of engineering tools used in structural health monitoring.