

San Francisco, CA  
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# William Kilmer

billkilmer.org  
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## Technical Skills

**Advanced:** Angular.js, Meteor.js, JavaScript, Data Structures

**Proficient:** Selenium, Ruby on Rails, D3.js, MongoDB, SQL, Backbone.js, React, Node.js, Express.js, CSS

## Projects

**Jabbr**, Team Member / Software Engineer  
*Social language learning site*

- Implemented front and back end of recording views with Mongo, Node, Express, and Angular
- Created schema for audio annotations attached to user recordings

**HackFeed**, Scrum Master / Software Engineer  
*Hacker News skin that allows bookmarking of stories and following of users and keyphrases*

- Deployed site to Heroku and set up remote Mongo instance
- Led daily standups and managed tasks with Trello kanban board

**Blood and Brains Bus Battle**, Scrum Master / Software Engineer  
*Checkin game between teams to control SF bus stops*

- Integrated Firebase Geofire npm module with Meteor to query real-time bus locations
- Set up Mongo collections to track players, teams, and scores
- Delegated duties to a team of four other engineers during daily standups

## Other Professional Experience

**NewDealDesign**, Mechanical Design Engineer | newdealdesign.com 2012 - 2013  
*Industrial and Mechanical Design Consultancy*

- Aided the development of a new consumer robotics platform
- Designed mockups and test rigs to evaluate components and design concepts
- Selected device components based on testing and datasheet analysis
- Modeled internal product geometry using SolidWorks solid modeling software
- Contributed to assembly and testing of ten functional prototypes

**Hodge and Elyria Foundries**, Mechanical Engineer | elyriafoundry.com 2010 - 2011  
*Heavy Iron Casting Production*

- Cut production costs with process improvement projects, such as reducing sand costs by 20%
- Wrote engineering mold instructions for casting production
- Optimized mold design and chemistry using genetic algorithms and a metal casting simulation program
- Wrote quoting system for mining castings based on historical weights and diameters

## Education

**Hack Reactor** - Advanced Software Engineering Immersive San Francisco, 2015  
**Pennsylvania State University** - B.S. Mechanical Engineering Pennsylvania, 2010

## Personal

I enjoy video games, running, and exploring nature.