

## Andrew An-cher Chen

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### PROJECTS:

**[ForgeTeam](#) ([Github](#))**: Backbone app with REST API on top of a Ruby on Rails layer; overrides default Model#parse method to create Rails-like associations in the client; uses jQuery and CSS to manipulate the DOM to create a stats calculator and interactive user interface

**[Asteroids](#) ([Github](#))**: JavaScript game that utilizes Canvas to draw the game, prototypical inheritance to create the ship, bullets, and asteroids of the game, and vector math for the movement of the objects in the game

**[Tree-Climbing](#) ([Github](#))**: Ruby app that utilizes tree data structures to provide a Tic-Tac-Toe AI that never loses; also uses the same structures to find routes for a knight chess piece

**[Tic-Tac-Toe](#) ([Github](#))**: JavaScript app that creates a Tic-Tac-Toe game and updates the game with CSS and jQuery

### LANGUAGES AND TECHNOLOGY:

Ruby, Rails, JavaScript, Backbone, SQL, HTML, CSS, jQuery, C, C++, Intel Assembly, TDD, Git

### WORK EXPERIENCE:

**Duke Empirical, Inc.**, Santa Cruz, CA

**Product Development Engineer**, 1/2013 – 7/2013

- Designed, managed, prototyped, and delivered catheter components for major medical device companies by contract timelines or earlier (fastest was within half the allotted time)

**Acclarent**, Menlo Park, CA

**R&D Engineer**, 6/2010 – 7/2011

- US Patent Filed: Features to Enhance Grip of Balloon Within Airway
- Helped create next generation staple product line (*Relieva Ultirra*) by testing and designing components of the product to achieve a finalized version within one year

**Genia Technologies, Inc.**, Mountain View, CA

**R&D Intern**, 6/2009 – 6/2010

- Used C to program a single board computer to take electrical signals and return with set patterns
- Without prior knowledge, created prototype DNA readers from start (software design and layout) to finish within 1 month
- Optimized circuitry using Spice circuit simulators for implementation in DNA readers

**Boston Scientific**, Fremont, CA

**R&D Engineer**, 4/2008 – 2/2009

- Within 3 months, recertified product for new standardization agencies; created tests for next generation product

### EDUCATION:

**Masters of Science, Engineering – Biomedical Devices Concentration**

**2011**

San Jose State University, GPA: 3.63

San Jose, CA

Master's project: Automation of intravascular ultrasound catheter production at Boston Scientific

**Bachelor of Science, Biological Systems Engineering**

**2007**

University of California, Davis

Davis, CA

Minors: Tech. Business Management (Graduate School of Management), Asian American Studies

One class short of Computer Science minor