Danny Fann

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Education

Expected August 2015 — **Computer Science, Bachelors of Science**, *The University of California, Irvine*.

September 2010 - June 2014 — **Public Health Science, Bachelors of Science**, *The University of California, Irvine*.

Projects

Connect-K AI

- Helped code an AI in C++ for a Connect-K game module that utilized IDS and alpha-beta pruning to predict opponent moves and act accordingly.
- Programmed AI's ability to compute adjacent pieces and determine the value of a given board.
- Wrote the documentation explaining the features implemented in the AI.

SDL Game Engine

- Programmed collision detection and physics component of game engine in C++.
- Implemented rudimentary game design used in game engine demonstration.

Experience

March 2014 - June 2014 — **Human Resources Intern**, UC Irvine Worklife and Wellness, Irvine.

- Worked alongside 14 other interns in a large variety of projects and tasks with the goal of fostering a healthy and vibrant culture on UCI campus.
- Restructured and updated the revamped program website to be launched later in the year.
- Designed new cover for Healthy Meeting Guidelines used in project development meetings.

May 2013 - September 2013 — **Advanced Tech R&D Intern**, Edwards Lifesciences, Irvine.

- Assisted in glutaraldahyde fixing for bovine aortic roots that were used for device testing that simulated aortic insufficiency.
- Performed pullout and push force testing to analyze clearance available for device deployment.
- Modeled sizers in Pro-E that were used for pullout testing of the Helio device.

June 2011 - May 2013 — **Transcatheter Heart Valve R&D Intern**, Edwards Lifesciences, Irvine.

- Conducted research on Embrella Feasibility and Animal Studies and compiled data for understanding Embrella's testing rationale and provided possible steps for moving forward with the development of the Embrella Device.
- Performed corrosion testing on Embrella devices and checked metallic body for corrosion. Wrote and submitted corrosion resistance technical summary.
- Created the documentation and presentation on Embrella Feasibility and Animal Studies. Presentation used in meetings to reach out of the other groups such as Clinical or for new members of the Embrella Project.
- Performed flow model particulate testing for Embrella Device on pulsatile flow model. Gathered data on particulate travel patterns within a system simulating physiological conditions.

May 2010 - September 2010 — **Heart Valve Therapy R&D Intern**, Edwards Lifesciences, Irvine.

- Created and submitted GLX Rabbit Calcification Study - Zero Time Protocol which showed that glutaraldehyde fixed tissue experienced significantly less calcification in comparison to other tissue fixing methods.
- Documented and aided in the implants and explants of GLX tissues in rabbits for comparison to other tissue fixing methods in anti-calcification performance.
- Ran x-ray imaging on implanted and explanted GLX tissues for pre- and post-operative analyses.

Languages and Technologies

Languages: Java (Basic), Python (Intermediate), C++ (Intermediate)

Technologies: HTML (Basic), CSS (Basic)