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Danny Fann

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++ that handled sprites and projectiles.
- Implemented rudimentary game design used in game engine demonstration.

RFID Reader

- Assembled an RFID reader that scanned a card and unloacked an NO electric strike lock if the card ID was accepted.
- Programmed an ATmega32 microprocessor in C to receive UART signals from the RFID reader, handle card identification, and trigger a relay to open an electric strike lock.

Languages and Technologies

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

Technologies: HTML (Intermediate), CSS (Intermediate), Meteor.js (Basic)

Experience

June 2015 - Present — **Advanced Materials and Technology Intern**, Edwards Lifesciences, Irvine.

- Created Installation Qualification/Operation Qualification protocol and Software Validation protocol for validating the laboratory's Instron Testing Machine.

May 2013 - September 2013 — **Advanced Technology 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.
- Performed flow model particulate testing for Embrella Device on pulsatile flow model and provided ways to improve the device's particulate deflection efficacy.

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.