Danny Fann

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Education

The University of California, Irvine

GPA: 3.0

Computer Science, Bachelors of Science

June 2014 - August 2015

The University of California, Irvine

Public Health Science, Bachelors of Science

September 2010 - June 2014

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.
- o Programmed Al's ability to compute adjacent pieces and determine the value of a given board.
- o Wrote the documentation explaining the features implemented in the Al.

SDL Game Engine

- \circ Programmed collision detection and physics component of game engine in C++ that handled sprites and projectiles.
- o Implemented rudimentary game design used in game engine demonstration.

RFID Reader

- o Assembled an RFID reader that scanned a card and unlocked 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.

3D Reconstruction with Structured Lighting

- Reconstructed a 3D model of a mannequin lit with structured lighting by decoding gray-coded images and triangulated a 3D mesh with the recovered pixel coordinates.
- Converted the reconstructed point cloud into a .ply model that could be imported into a 3D rendering program such as Maya or Blender.

Languages and Technologies

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

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

Experience

Edwards Lifesciences Irvine

Advanced Materials and Technology Intern

June 2015 - Present

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

Edwards Lifesciences Irvine

Advanced Technology R&D Intern

May 2013 - September 2013

- o Assisted in glutaraldahyde fixing for bovine aortic roots that were used for device testing that simulated aortic insufficiency.
- o Modeled sizers in Pro-E that were used for pullout testing of the Helio device.

Edwards Lifesciences Irvine

Transcatheter Heart Valve R&D Intern

June 2011 - May 2013

- Compiled data for understanding testing rationale and provided possible steps for moving forward with the development of the Embrella Device.
- o Performed flow model particulate testing for Embrella Device on pulsatile flow model and provided ways to improve the device's particulate deflection efficacy.

Edwards Lifesciences Irvine

Heart Valve Therapy R&D Intern

May 2010 - September 2010

- o 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.
- o Ran x-ray imaging on implanted and explanted GLX tissues for pre- and post-operative analyses.