Andrew C. Chan

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EXPERIENCE

Northrop Grumman Aerospace Systems, El Segundo, CA
Systems Engineer

October 2016 - PRESENT

- Programmed a Java plugin to connect a systems architecture tool to Microsoft Excel. Utilized the Apache POI Library to connect to Excel. Created a recursive tree walker to export hierarchical tree diagrams in SysML into indentured rows in Excel. Created Class data structures to house information that was subsequently exported.
- Programmed templates via Velocity Template Language to automatically generate various documents from a systems architecture tool.
- Programmed a template in Velocity Template Language to export out Internal Block Diagrams as XML.

Boston Scientific Neuromodulation Division, Valencia, CA
Intern: Research and Development Automatic Testing Equipment

June 2015 - September 2015

- Developed a test system for wireless charging characteristics using programmed LabVIEW code to control source measure units, DAQs, digitizers, and function generators.
- Created hardware validation procedures for automated test systems for medical spinal cord stimulator devices utilizing external equipment such as oscilloscopes, source meters, and function generators.

EDUCATION

University of California, Los Angeles (UCLA) — *B.S., Electrical Engineering Computer Science Technical Breadth*

September 2012 - June 2016

PROJECTS

Web Programmer — *Bahram Jalali Laboratory, UCLA*

- Created a webpage from utilizing HTML, CSS, Javascript, jQuery, and PHP. Able to upload images to a server, create server calls, and parse JSON messages. Assisted programming the Jalali Web Calculators and the Anamorphic Stretch Compressor at the Bahram Jalali Laboratory.
- Published paper: Peter T. S. DeVore, Yunshan Jiang, Michael Lynch; Taira Miyatake; Christopher Carmona, Andrew C. Chan, Univ. of California, Los Angeles (United States); Kuhan Muniam; Bahram Jalali, "Silicon photonics cloud (SiCloud)" Proc. SPIE 9367, Silicon Photonics X, 93670G (27 February 2015).

Historical % Return Stock Return Calculator — *Personal Project*

- https://stock-return-history.herokuapp.com/
- Created a website that queries the REST API of the public Quandl database and calculates the historical percent return of the stock in the chosen date range, calculates a linear regression on the chosen date range, and displays the data from the query via Chart.js.

SKILLS

Java, C++, JavaScript, jQuery, HTML, CSS, Node.js, MongoDB, Velocity Template Language, Heroku, git