Andrew C. Chan
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EDUCATION

University of California, Los Angeles (UCLA) B.S., Electrical Engineering **Graduated Jun. 2016**
Relevant coursework:
Computer Science: C++, Digital Signal Processing, Systems and Signals, Logic Design of Digital Systems, Digital Electronic Circuits (**Cadence Virtuoso**), Circuit Theory I & II, Analog Circuits, Introduction to Communication Systems, Principles of Feedback Control (using **MATLAB** and **Simulink**), Radio Frequency Design Lab
Computer Science Technical Breadth:
Computer Organization, Computer Systems Architecture

MIT Professional Certificate Program
Architecture and Systems Engineering: Models and Methods to Manage Complex Systems **Aug. 2017**

PROFESSIONAL EXPERIENCE

Systems Engineer
Northrop Grumman Aerospace Systems, El Segundo, California **Oct. 2016- Present**
- **Programmed a Java plugin to connect Cameo Enterprise Architecture to Microsoft Excel. Utilized the MagicDraw and Apache POI.**
- **Created templates via Velocity Template Language to automatically generate documents from Cameo Enterprise Architecture.**
- **Worked with Cameo Enterprise Architecture to describe systems in SysML, UPDM, and familiar with functional ar physical architecture decomposition.**

Intern: Research and Development Automatic Testing Equipment **Jun.-Sep. 2015**
Boston Scientific Neuromodulation Division (BSC), Valencia, California
- 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.
- Created LabVIEW programs to control components such as relays and electrode outputs.

IEEE Micromouse Co-Chair (Officer Position) **Sep. 2014-Jun. 2015**
IEEE Student Branch, UCLA
- Designed an autonomous maze-solving robot using a STM-32 Microprocessor, IR emitters and sensors, floodfill algorithm, gyroscope, and PID control. Used **EAGLE Cadsoft** to create a PCB board.
- Managed 12 teams of UCLA students in designing and building maze-solving robots.
- Lectured on sensors, power regulation, motor control, microprocessors to UCLA students.
- Organized and executed the 2015 All American Micromouse Competition at UCLA with participants from Taiwan, UC Riverside, UCLA, UCSD, and South Dakota.

Volunteer: Web Programmer **Oct. 2013-Oct. 2014**
Bahram Jalali Laboratory, UCLA
- Created a webpage from scratch 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.

PUBLICATIONS

- Peter T. S. DeVore, Yunshan Jiang, Michael Lynch, Univ. of California, Los Angeles (United States); Taira Miyatake, Univ. of Tokyo (Japan); Christopher Carmona, **Andrew C. Chan**, Univ. of California, Los Angeles (United States); Kuhan Muniam, Univ of California, Los Angeles (United States); Bahram Jalali, Univ. of California, Los Angeles (United States), "**Silicon photonics cloud (SiCloud)"** Proc. SPIE 9367, Silicon Photonics X, 93670G (27 February 2015).