Ailin Yu

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Objective
- Accomplished triple-major honors student seeking to work on cutting edge engineering projects

Education

Case Western Reserve University, Cleveland, Ohio	Class Level: Junior
Bachelor of Science in **Systems and Control Engineering**, May 2017	Overall GPA: **3.91**
Bachelor of Science in **Computer Engineering**, May 2017	Dean's High Honors List
Bachelor of Arts in **Music Performance**, May 2017	

Honors
ALDEN Scholarship for Systems and Control Engineering Recipient

Eta Kappa Nu, IEEE Honor Society

Case Western Reserve University Annual Concerto Competition Winner

Kelvin Smith Library Art of STEM Competition, 3rd Place

Music for Performing Arts Scholarship

Ioudenitch Summer Piano Academy (2012, Kona, Hawaii; 2013, St. Petersburg, Russia; 2015, Lake Como, Italy)

Experience

Sensing and Interactions Laboratory, Case Western Reserve University

Undergraduate Researcher, August 2015 – Present
- Optimized functionality and usability of Google Glass program for medical applications
- Analyzed facial recognition algorithms for medical application implementation

New Generation Power Efficient Computer Systems Design, Washington State University REU

Undergraduate Researcher, June – August 2015
- Designed hardware implementations of machine learning classification mechanisms for dynamic voltage and frequency scaling of voltage and frequency islands

Sopharmia, Inc., St. Joseph, Missouri

Lab Research Assistant, December 2013 – January 2014
- Performed spectroscopic characterization of a new class of monobactam antibiotic substrate
- Characterized the kinetics of hydrolysis of monobactam substrate by metallo-β-lactamases

Lab Research Assistant, May – August 2013
- Characterized enzymes inhibited by potential new antibiotic candidates
- Determined IC_{50} and partition ratio-values via stopped time assays using an ultraviolet-visible spectrophotometer.

Publications

Peer Reviewed Journals

Poffenberger AR; **Yu A**; Zhou N; Yu S; Crowder MW; Sutton LD. *A chromogenic monobactam for monobactamase assays* submitted to Journal of Antibiotics (In Revision)

Skills
Experience in Android Development, Google Glass Development

Proficiency programming in Java, MATLAB, VHDL, Verilog

Proficiency using Microsoft Office (Word, Excel, Powerpoint), Creative Suite (Photoshop, Premiere, Illustrator, Flash)

Campus Leadership
Music Undergraduate Student Involvement Committee, Secretary

Relevant Coursework (Current Enrollment*)
Data Structures*, Signals and Systems*, Hardware Security*, Statistics for Signal Processing, Java Programming, Logic Design and Computer Organization, Discrete Math, Circuits and Instrumentation, Elementary Computer Programming (MATLAB)