

JIAYAO (AMY) LI, EIT

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EDUCATION

Texas A&M University, Dwight Look College of Engineering, College Station, TX
Study Abroad: Singapore (Dec. 2017 – Jan. 2018); Japan (May 2018 – Aug. 2018)
B.S. Double Major in Computer Science & Mechanical Engineering; Minors: Cybersecurity & Mathematics
Certificates: Business Management; Data Center Operations; Engineering Honors; International Engineering

RELATED SKILLS & COURSES

Fluent in Mandarin Chinese and English; C/C#/C++, Haskell, HTML, Java, Ruby on Rails; Algorithms & Data Structure, Computer-Human Interaction, Cyber Security, Machine Learning, Risk Assessments; AutoCAD, Inventor, SolidWorks

WORK EXPERIENCE & PROJECTS

Undergraduate Research, Texas A&M University

Department of Computer Science & Engineering, Sketch Recognition Lab Jan. 2017 – Aug. 2018

- Wrote thesis on the topic of accuracy and timing analysis of gaze-gesture detection algorithms using eye-tracking
- Implemented machine learning algorithms: decision tree, neural network, Pearson correlation, template matching

Department of Mechanical Engineering, Bio-robotics Lab Jan. 2017 – Aug. 2017

- Coded program to analyze computer vision and built prototype to model robotic device

Walt Disney World Parks and Resorts, Design & Engineering, Lake Buena Vista, Florida

Simulation & Analysis, Professional Engineering Intern May 2016 – Aug. 2016

- Coded and debugged software programs to perform data analysis and simulation modeling

Architecture & Facilities Engineering, Professional Engineering Intern Jan. 2016 – May 2016

- Helped to design and draft engineering drawings for Star Wars: A Galactic Spectacular Fireworks show

BP, Senior Capstone Design Project, Texas A&M University Sept. 2017 – May 2018

- Designed system to apply specialized coatings to protect metals from corrosion for offshore oil & gas platforms

Industrial Assessment Center, Texas A&M University June 2015 – Dec. 2015

Student Technician

- Conducted audits and analyzed various manufacturing processes to deliver reports on energy saving measures

Department of Mechanical Engineering, Texas A&M University

Teaching Assistant, Peer Tutor, Grader in MEEN 210, 221, 381, 460 Fall 15, Fall 16 – Spring 18

Student Ambassador, Peer Advisor Apr. 2015 – Dec. 2015

LEADERSHIP & VOLUNTEER ACTIVITIES

Memorial Student Center Bethancourt, Texas A&M University Fall 15, Spring 17 – Spring 18

Internal Development Director (Fall 2017, Spring 2018)

- Engaged in cross-discipline and hands-on learning experiences through professional development programs

Aggies Invent, Engineering Innovation Center, Texas A&M University Aug. 2014

1st Place in competition against 7 teams

Church Volunteer, College Station, Texas May 2017 – May 2018

Sunday School Teacher; Bible Study Leader

Give Kids the World Village, Orlando, Florida Jan. 2016 – Aug. 2016

Volunteer – Provided service to children with life-threatening illness and their families

Fish Camp, Texas A&M University Mar. 2015 – Oct. 2015

Counselor – Cooperated with 25 other counselors to mentor over 150 freshmen to help them transition to college

Aggies Reaching Out, Texas A&M University May 2015

Counselor – Mentored groups of 7-10 underrepresented 8th graders in order to inspire them to pursue higher education

Memorial Student Center LEAD, Texas A&M University Sept. 2014 – May 2015

Spencer Leadership Conference Committee