

# 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. 17 – Aug. 18

- 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. 17 – Aug. 17

- 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 16 – Aug. 16

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

*Architecture & Facilities Engineering, Professional Engineering Intern* Jan. 16 – May 16

- 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. 17 – May 18

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

**Industrial Assessment Center**, Texas A&M University June 15 – Dec. 15

*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* Sept. 15 – May 18

*Student Ambassador, Peer Advisor* Apr. 15 – Dec. 15

## LEADERSHIP & VOLUNTEER ACTIVITIES

**Memorial Student Center Bethancourt**, Texas A&M University Jan. 17 – May 18

*Internal Development Director (Fall 17, Spring 18)*

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

**Aggies Invent**, Engineering Innovation Center, Texas A&M University Aug. 14

*1<sup>st</sup> Place in competition against 7 teams*

**Church Volunteer**, College Station, Texas May 17 – May 18

*Sunday School Teacher; Bible Study Leader*

**Give Kids the World Village**, Orlando, Florida Jan. 16 – Aug. 16

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

**Fish Camp**, Texas A&M University Mar. 15 – Oct. 15

*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 15

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

**Memorial Student Center LEAD**, Texas A&M University Sept. 14 – May 15

*Spencer Leadership Conference Committee*