

# JIAYAO (AMY) LI, EIT

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## EDUCATION

**Texas A&M University, Dwight Look College of Engineering**, College Station, TX  
Certificates: Business Management; Data Center Operations; Engineering Honors  
B.S. Double Major in Computer Science & Mechanical Engineering; Minors: Cybersecurity & Mathematics

Graduation: Aug. 2018  
Cumulative GPR: 3.62

## 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 January 2017 – Present

*Department of Computer Science & Engineering, Sketch Recognition Lab*

- Develop machine language algorithms to detect gaze gestures using eye-tracking; analyze accuracy and timing
- Implement machine learning algorithms: decision tree, neural network, Pearson correlation, template matching

*Department of Mechanical Engineering, Bio-robotics Lab*

- Code program to analyze computer vision and build prototype to model robotic device

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

*Simulation & Analysis, Professional Engineering Intern*

May 2016 – August 2016

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

*Architecture & Facilities Engineering, Professional Engineering Intern*

January 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

Fall 2017, Spring 2018

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

**Industrial Assessment Center**, Texas A&M University

June 2015 – December 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

Fall 2015, Fall 2016 – Present

*Teaching Assistant, Peer Tutor, Grader in MEEN 210, 221, 381, 460*

**Department of Mechanical Engineering**, Texas A&M University

April 2015 – December 2015

*Student Ambassador, Peer Advisor*

## LEADERSHIP & VOLUNTEER ACTIVITIES

**Chi Alpha Christian Fellowship**, Texas A&M University

September 2016 – Present

*Bible Study Leader*

**Memorial Student Center Bethancourt**, Texas A&M University

Fall 2015, January 2017 – Present

*Internal Development Director*

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

**Grace Bible Church**, College Station, Texas

May 2017 – Present

*Sunday School Teacher*

**Give Kids the World Village**, Orlando, Florida

January 2016 – August 2016

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

**Fish Camp**, Texas A&M University

March 2015 – October 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 8<sup>th</sup> graders in order to inspire them to pursue higher education

**Memorial Student Center LEAD**, Texas A&M University

September 2014 – May 2015

*Spencer Leadership Conference Committee*

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

August 2014

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