Fanzhen Ding

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Education

Texas Tech University, Lubbock TX — May 2020 (expected)
Bachelor of Science in Mechanical Engineering with minor in Mathematics — **GPA: 3.89**

Munich University of Applied Science, Munich Germany — July 2018
Bachelor of Science in Mechanical Engineering — Study Abroad

Activities

- **Bio-Inspired Mechanic and System Lab** (BIOMS) *Undergraduate Researcher* — Feb. 2017 – Present
  - Researched on using Arduino to power a wall-climbing robot with gecko feet inspired adhesives
  - Provided 3-D design (produced in SolidWorks) to assist the research process
- **American Society of Mechanical Engineers** (ASME) *Active member* — Mar. 2017 – Present
- **Software Development Club** (SDC) *Member* — June 2016 – May 2017
  - Developed an IOS app for SAT review using Swift language
  - Organized coding workshops during the "Catch the Engineering Bug" event
- **Technology Student Association** (TSA), *Alumna* — Aug. 2014 – Present
  - Alumna on regional, state, and national level
  - Competed in Children Stories, won 1st in Texas and 4th in Nationals (2016)
  - Organized event entries and assisted event coordinator

Work Experience

- **First Tech Challenge** (FTC), *Mentor* — Feb. 2017 – May 2017
  - Assembled competition field
  - Volunteered as technical support on competition site
  - Inspected participants' robot entries and their driver controllers' status
  - Refereed and instructed participants during competition
- **Starbucks**, Barista — Sept. 2017 – Present

Skills

- **Coding**: basic experience with Java, Python, MATLAB and Swift
- **Work Environment**: experience with Android Studio, JCreator, XCode and Mechanical APDL
- **3-D design**: basic design using SolidWorks, Fusion 360, Rhinoceros, SketchUp, and AutoCAD
- **Editing**: Proficient in MS Office Suite
- **Graphic Design**: Certified in Adobe Photoshop CS5 and InDesign (2016)
- **Language**: Fluent in Chinese and English, conversant in French
- **Musical Instrument**: Flute and Piano
- **Basic accounting**

Past Projects & Accomplishments

- 3D printed wind turbine designed using Rhinoceros, printed with UltiMaker3 — May 2018
- President's List — June 2016 – Dec. 2017
- Presidential Scholarship recipient at Texas Tech University — June 2016 – Present
- Best Use of AWS award in HackWesTX – *ExcusMe* — Apr. 2017
  - My team programmed an Android phone app that allow users to schedule fake calls to get them out of unpleasant social situations
- Hydraulic Machine (Class Project for ENGR1315) — Nov. 2016
- National Center for Women & Information Technology San Antonio Area Runner-up — Mar. 2016
- Explored and studied the possibilities of using biodegradable jellyfish by-product, Hydromash, to substitute polymers in diapers and female hygiene products to reduce pollution — Mar. 2015
  A prototype was built using Super Absorbent Polymer (SAP) for demonstration
- Individually experimented on the effect of atmosphere pressure on diffusion — Mar. 2015