

Dillon M. Ding

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EDUCATION

Bachelor of Science in Mechanical Engineering, Minor in Business

May 2024

The University of Texas at Austin (GPA: 3.8)

Related Courses: Thermodynamics, Statics, Dynamics, Mechanics of Solids, Materials Engineering, Fluid Mechanics

WORK EXPERIENCE

Hyperloop Magnetic Levitation Subsystem Mechanical Engineer, Texas Guadalupe Aug. 2021 – Present

- Leading research and development project involving YBa₂Cu₃O₇ high temperature superconductors cooled by liquid nitrogen to generate pod levitation over specially arranged permanent magnets
- Incorporate active magnetic levitation and Halbach array design into final design, boost pod levitation efficiency by 28%
- Showcase pod prototype to compete at European Hyperloop Week

3D Design and Graphics Teacher, HuaXia Chinese School Jul. 2021 – Aug. 2021

- Worked directly with aspiring engineering students to create 3D objects with Fusion 360, created thoughtful and engaging unit and lesson plans daily
- Fostered student curiosity and interest in learning through engaging discussions and projects, increased overall student productivity by 46%

Brand Ambassador, Forever 21 June 2021 – Aug. 2021

- Supported all management, visuals, and sales team, helped customers with product selection on the sales floor
- Assisted in offering information, responded to customers wants/needs, promoted sales and benefits, improved weekly sales by 4%

LEADERSHIP

Engineering Ambassador, Cockrell School of Engineering Aug. 2021 – Present

- Participate in outreach activities with K-12 students, accomplish goal of increasing prospective student interest in UT engineering
- Facilitate leadership retreats and assist in presenting information about the Cockrell School at information sessions

Floor Representative, Jester East Residential Hall Council Sep. 2020 – May 2021

- Communicated with team to develop and implement 6 dorm-wide virtual events throughout the fall semester
- Coordinated with the Public Relations Specialist to collect and distribute promotional flyers

SKILLS

SolidWorks, Fusion 360, Python, COMSOL Multiphysics, Java, Arduino IDE, LaTeX, MATLAB, Ansys Maxwell

Machine Shop and Laser Cutting Certification

Flexible and effective at working in constantly evolving situations, experience in developing experimental methods

Fluent in English, Conversational in Mandarin, Beginner in French

Well-versed in personal portfolio investment management regarding stocks and options trading

ACTIVITIES & HONORS

Aug. 2021 – Present

- **Project Manager, B*Tru Arts/Project Advance**
 - Collaborate with B*Tru Arts to introduce and incorporate VR technology in visual arts classrooms for underprivileged elementary students
- **Entrepreneur, Longhorn Kickstart**
 - Develop startup fundraising campaign for inventing physical product patents to launch on Kickstarter
 - Collaborate with fellow entrepreneurs to market product launches and measure customer reception
- **Student Engineering Council Make-a-thon, 3rd Place Finalist**
 - Oversaw and executed a design project involving a mechanical laptop stand that uses ultrasonic sensors to help reduce eye strain in the office workplace

Sep. 2020 – Dec. 2020

- **Film Producer Volunteer, World of Engineering**
 - Produced informative physics video featuring a DIY catapult to educate young engineers about potential and kinetic energy