Yifan Ding

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Education

University of California, Berkeley, College of Engineering   August 2017 – December 2020
- Bachelors of Science in Industrial Engineering and Operations Research   Berkeley, CA
- Bachelors of Science in Data Science   GPA: 3.33
- Coursework included artificial intelligence, game theory, multi-agent motivation modelling using Python, Java, SQL and MATLAB, data structures, commercial and industrial data systems, probability and risk management

Experience

Ulsan National Institute of Science and Technology   May 2018 – August 2018
Artificial Intelligence Intern   Ulsan, Korea
- Built artificially intelligent agents and simulator to test 10,000 artificially intelligent agents in a 100 x 100 grid for social dilemma interactions using **Python**
- Collected and analyzed data of cooperative tendencies among agents in environment
- Optimized total utility produced in system by average of 12% across all agents in environment
- Programmed weighting of new parameter (reputation) into existing agents

Berkeley Hyperloop   February 2018 – Present
Mechanical Engineer   Berkeley, CA
- Carried out complete design and manufacture process for a 3'×2'×2' shelf for 3 types of 20 neodymium magnets and a connector piece to bind I-beam rails together to a tolerance of ±0.005 inches.
- Machined aluminum alloy parts to a tolerance level of ±0.005 inches using a mechanical mill
- Investigated and evaluated methods of applying materials like carbon fiber reinforced polymers
- Used ANSYS systems to simulate stress test of parts before entering manufacturing process

Berkeley Pioneers in Engineering   September 2017 – May 2018
Mechanical Engineer   Berkeley, CA
- Replicated, using SolidWorks, 3 different types of gears using parameters set by industrial manufacturer
- Evaluated cost efficiency, melting temperature, elasticity, hardness and ductility of 3 materials
- Assisted in the creation of a manufacturing process, including polymer material mixing, mold making and pressure cooking, which was cost 25% more cost efficient than purchasing industrially manufactured gears
- Produced approximately 125 gears through this process
- Machined LED protectors with mechanical mill to a tolerance level of ±0.01 inches using mechanical mill

StarT Foundation   August 2015 – Present
Founder / Chief Executive Officer   Shatin, Hong Kong
- Organized team of students to found, in one year, the most successful non-profit in the school
- Personally organized fundraisers that raised $7,000 and $32,000 respectively, totaling over $60,000
- Negotiated acquisition, organized marketing and managed distribution of a jewelry product with a stock of over 300 units to retail at a 5,000% profit margin
- Contracted fundraiser work for '24hr Badminton' event to another group of students upon recognizing my team was overworked and overextending, attracting 130 students and 15 teachers
- Corresponded through over 20 emails with Concordia Welfare and Education Fund (CWEF), establishing StarT as a permanent chapter of CWEF
- Created and maintains charity LinkedIn Profile

Additional Information
- **McLaurin's Award / British Mathematics Olympiad Invitee**: four years consecutively placing in the top 0.5% bracket for Olympiad style mathematics competitions out of ~200,000 participants
- **Languages:** Fluent in both Chinese and English
- **Debate / Public Speaking**: Deputy Head Delegate of Model United Nations team, speech competitions
- **Admin for Comedy Page:** Founded and ran the school comedy page for 2 years, with 608 followers