

DAPHNE POON

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EDUCATION

Harvey Mudd College – *Claremont, CA*
Bachelor of Science in Computer Science and Math

Expected Graduation: May 2021
3.82 GPA

- Hong Kong Scholarship for Excellence awardee (> \$30,000 USD per year).
- Relevant coursework: Autonomous Vehicles, Principles of Computer Science, Engineering Systems, Experimental Engineering (Spring '19), Data Structures and Program Development (Spring '19)

WORK EXPERIENCE

Lab for Autonomous and Intelligent Robotics – *Claremont, CA*
Research Intern

June 2018 - Present

- Incorporated autonomous navigation abilities into a confidential multinational tractor-trailer company's loader vehicles using Python, producing up to ~ 80% savings on needed man-hours dedicated to operating the vehicle.
- Implemented improved path-finding algorithms that eliminate collisions while preserving efficiency.
- Processed camera data using OpenCV to detect and avoid obstacles, such as pedestrians.
- Closed a path-following control loop, ensuring accurate vehicle motion and minimizing emissions.

Wong and Ouyang Limited – *Hong Kong*
Civil Engineering Intern – Architectural firm operating in Hong Kong, Macau, and Mainland China.

June 2017 - July 2017

- Redesigned hazardous chemical storage at a new Hong Kong Jockey Club building, preventing chemical leaks into a nearby pool.
- Communicated progress and insured deadlines to Jockey Club executives and other contractors weekly.

Arup – *Hong Kong*
Building Sustainability Intern – Multinational civil engineering company.

August 2016

- Annotated and communicated building blueprints to demarcate areas encountering unexpected airflow, and therefore unexpected environmental impact.
- Wrote an internal report detailing availability of different energy efficient products in Hong Kong, highlighting differences with other markets.

PROJECTS AND LEADERSHIP

Committee for Activities Planning – *Harvey Mudd College*
Director

April 2018 - Present

- Organize off-campus activities for students within our \$25,000 USD annual budget constraint.
- Financially support student activities for at least two thirds of the campus body.

Autonomous Vehicle Competition – *Claremont, CA*

September 2017 - November 2017

- Designed, programmed and constructed two autonomous robots over 45+ hours using Arduino.
- Placed second out of over twenty teams.

SKILLS

Programming Languages	Python, Java, C, C++.
Tools	AutoCAD, SolidWorks.
Native Languages	English, Cantonese, Mandarin.
Other Languages	French (fluent).