**Patrick Lee**

University of California – San Diego | Class of 2020 (808)465-7408

Bachelor of Science Computer Engineering <https://github.com/Peiyj>

GPA: 3.63

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**Experience**

**Society of Asian Scientists,** External Vice President Intern October 2017 – Present

* Assist external vice president in reaching out and establishing professional connections within San Diego.
* Organize and facilitate a quarterly professional development workshop hosted by a professional.
* Research and draft sponsorship packages with EVP.
* Maximize industry representation in all professional and networking events and workshops.

**Boost Mobile,** Sales Intern June 2017 – September 2017

* Perform sales support functions related to Point Of Sales procedure, Business to Business, Easy Pay.
* Greet and provide technical support to customers.
* Well-versed about different phone brands, software information, battery information, etc.
* Trouble shoot broken phones and batteries while adhering to the customers’ demand.

**J-Tex,** Graphic Intern June 2015 – September 2015

* Adjust colors, opacity and layers of different prototype photos using Adobe Illustrator.
* Resize and clone sample prototypes on a new blank canvas or a given background using adobe Photoshop.
* Design different promotional posters for different bedding products.

**Projects**

**Maya Archaeology**, Tunnel Mapping June 2017 – Present

* Purpose: To implement and compare multiple SLAM algorithms with the data collected from archaeological sites.
* Integrating SLAM to the existing 3D reconstruction algorithm.
* Installing and running many SLAM algorithms and establishing a comparison metric for accuracy and performance.

**Institute of Electrical and Electronics Engineer,** Electrical Engineer October 2017 – Present

* Purpose: To create an autonomous robotic ‘mice’ programmed to solve a 16x16 cell maze.
* Design PCB layout using EAGLE software.
* Construct an o H-Bridge motor driver circuit to pull proper current for the brushed DC motor.
* Regulate voltage from NiMh or LiPo battery to provide various voltages to circuits.

**CSE Research lab,** Computational Research For K-histogram October 2017 – Present

* Purpose: to investigate the definition of K-histogram and the effect that it has in two-dimensional and three-dimensional space.
* Apply linear algebra and vector calculus to compute vectors in both two-dimensional and three-dimensional space.

**Vermicompost,** Cofounder Of Sustainability Committee At Hong Kong Academy June 2013 – July 2016

* Purpose: To reduce 33% food waste on campus(success).
* Design the blueprint of the vermicomposting machine using Adobe Illustrator.
* Responsible for 3D printing blueprints.
* Manage the worm activities and food waste level using Tableau.

**Engineering for Sustainable World,** Project Engineer October 2016 – April 2017

* Purpose: To address the importance of renewable energy by constructing a solar-paneled charging station.
* Responsible for connecting wires from the solar panels to the charging station while following safety procedures.
* Analyze the amount of renewable energy saved from the energy monitor using MATLAB.

**Leadership**

**Sixth College Student Council,** Judicial Board Chair June 2016 – September 2017

* Responsible for informing the student body about the importance of student conduct rules.
* Conduct hearings on monthly basis on student misconduct in accordance with the UCSD Student Conduct Code.
* Arrange meetings with Judicial board members and represent Sixth College on the All Campus board meeting.

**Associate Students,** Election Committee Manager And Representative October 2016 - September 2017

* Publicize the 2017 election and any fee referenda on the ballot to increase votes across UCSD campus.
* Schedule, coordinate and publicize candidate debates, speeches and forum.
* Work with other Election managers to ensure the proper maintenance of all complaints and violations pertaining to the elections.

**Skills**

**Software and Technology:**

* Java, C++, Adobe Photoshop, Adobe illustrator, Microsoft office, Pseudocode, Tableau, MATLAB.