

**OBJECTIVE** Seeking an internship in the field of Electrical Engineering.

**EDUCATION** **California State Polytechnic University Pomona (Fall 2018 – Current)** **GPA: 3.30**

*Expected Graduation Date: May 2022*

- Bachelor of Science, Electrical Engineering (Emphasis in Communications)
- Treasurer of Hermanos Unidos Club (Current)
- Treasurer of the Cal Poly Pomona Steel Bridge Club (Current)
- Member of the Undergraduate Missiles Ballistics and Rocketry Association (Current)

**John Marshall High School, Los Feliz California (2014 to 2018)** **GPA: 3.916**

- Team Member of John Marshall High School Varsity Football team
- Los Angeles CIF Division III Varsity Football Champion
- John Marshall High School Site Council Student Representative (2017 to 2018)

**WORK EXPERIENCE** **Northrop Grumman, One Space Park, Redondo Beach, California**  
**PLSE Digital and Link Program Systems Engineering Intern (Summer 2020)**

**Queuing Theory and Modeling Switch Traffic:**

- Support PLSE Digital and Link team on basic traffic simulation meant to model the behavior of the ASIC, which implements a 7x7 switch. The model is integral to sizing ASIC internal buffers to ensure data is not dropped under a variety of system scenarios.
- Document the Traffic Model in MATLAB
  - Implemented updates to the traffic model, designed and ran test cases to see system performance under loading

**Advanced Extremely High Frequency (AEHF) Program Systems Engineering Intern (Summer 2019)**

- Support database system engineering team for Payload Constants and Calibration (Section 4.8) product
- Develop a verification and validation Python tool
  - Determine if delivery data file(s) are compliant with the formatting requirements given in AEHF factory to Mission Control Segment Interface Control Interface Control Document (SI-3415)
- Semiconductor Research
  - Measured resistance of different types of semiconductors under various temperatures

#### **COURSEWORK & EXPERIENCE**

- College Calculus (I,II,III), College Chemistry for Engineers, College Newtonian Physics, College Electricity and Magnetism Physics, Intro to Electrical Analysis I & II
- Honors Physics, Honors Biology, AP Calculus, AP Spanish
- Proficient in Python, MATLAB
- Web Page Design College Course at West Los Angeles College (Summer 2016)
- Introduction to Robotics Programming College Course, West Los Angeles College (Summer 2016)
- Computer Science-Information Technology College Course at Los Angeles City College (Summer 2015)
- Course on building Basic Digital Logic Projects (Summer 2014)
- Course on building Basic Electronic Integrated Circuits (Summer 2013)
- Business, Careers & Entrepreneurship College Course at West Los Angeles College (Summer 2016)
- Business Communication College Course at West Los Angeles College (Summer 2016)
- Developed my own Web Page at West Los Angeles College (Summer 2016)
- Proficient at Microsoft Word, PowerPoint, and Excel

#### **AWARDS AND HONORS**

- Northrop Grumman Best Overall Presentation Explore Aerospace (July 2019)
- Hermanos Unidos “El Mero Mero” Academic Recognition Award (December 2019)
- School Site Council Recognition (May 2018)
- Gil Hentschke STEM Scholarship Recipient (May 2018)
- LAUSD Seal of Bi-literacy Award, John Marshall High School (May 2018)
- Superintendent High Honor Roll, John Marshall High School (May 2018)
- Los Angeles CIF Division III Varsity Football Champion (December 2017)
- Certificate of Best Individual Business Proposal at West Los Angeles College (June 2016)