

**EDUCATION**

- 2015-Present **University of California Los Angeles (UCLA)**  
*Candidate for Bachelor of Science in Bioengineering*
- GPA: 3.73/4.00
  - Relevant Coursework: General Chemistry, Organic Chemistry, Physics for Scientists and Engineers, Multivariable Calculus, Linear Algebra, Differential Equations, Life Science, Introduction to Computer Science, Bioengineering Fundamentals
- 2011-2015 **Legend High School**
- Valedictorian

**AWARDS & HONORS**

- 2016-Present Alpha Lambda Delta Honor Society  
 2015 & 2016 Dean's Honors List

**EXPERIENCE**

- 2016-Present **The Ozcan Research Group at UCLA**  
*Howard Hughes Medical Institute Undergraduate Researcher*
- Building a smartphone microscope using Autodesk Inventor and 3D printing
  - Writing algorithms on Matlab that will be used to analyze images taken from the smartphone microscope for water turbidity, monitoring pathogens and other impurities
- 2016 **Gerard Wong Lab at UCLA**  
*Undergraduate Student Researcher*
- Performed killing assays and MIC (minimum inhibitory concentration) on E-Coli and Staphylococcus Aureus pathogens to test the killing and inhibitory effects of novel antimicrobial conjugates of the drug Tobramycin on persistent bacteria to combat drug resistance

**TECHNICAL SKILLS**

- Computer Skills: Autodesk Inventor, Matlab, Excel, PowerPoint, Word, PASCO Capstone with DAQ (Data Acquisition Software)
- Lab Skills: Cell Based Assays, Pipetting, Centrifugation, Titration, Use of spectrophotometer, Solution Preparation, Thin-Layer Chromatography (TLC), Ion-Exchange Chromatography, Liquid-Liquid Organic Extractions, Recrystallization

**LEADERSHIP**

- 2016-Present **MentorSEAS**  
*Engineering Peer Mentor*
- Mentoring two first year engineering students and providing connections and resources to mentees
- 2015-Present **Biomedical Engineering Society**  
*Peer Mentor and Member*
- Providing a first-year student with resources and mentoring
  - Attending industry, academic, outreach, and social events
- 2015-Present **Sikh Student Association**  
*Member and Sikh Awareness Week Committee*
- Working with a team to plan multiple Sikh Awareness weeks on the university campus
  - Participating in community outreach at the Khalsa Care Foundation
- 2014-2015 **Kids Unite Tutoring**  
*Co-founder and Tutor*
- Set up a tutoring program for impoverished students in a local middle school
  - Expanded and advertised the tutoring program to allow more students to become tutors
- 2014-2015 **Mu Alpha Theta: Math National Honor Society**  
*Chapter Founder and President*
- Formed a chapter for future students by reaching out to the national board, determining a budget, and collaborating with charter members

**ACTIVITIES**

- 2015-Present **Society of Women Engineers**  
*Member*
- Participating in events supporting and networking women in engineering