**Davis Lu**

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Dedicated and enthusiastic engineering honors student seeking a summer chemical engineering internship role

**Education**

**Texas A&M University | College Station, TX May 2025**

Bachelor of Science in Chemical Engineering, Engineering Honors, GPA 3.61

Relevant Coursework: Organic Chemistry, Differential Equations, Mass/Energy Balance

**Relevant Experience**

**Intel – TCM Gas and Chemical Technician Intern May 2022 - Aug 2022**

* Worked with engineers and technicians in maintaining crucial chemical supplies at Intel’s Ocotillo campus, monitoring chemical delivery systems to sustain continuous and safe operation of wafer fabrication plants
* Obtained Bulk Chemical Delivery Level 1 certification, tasked with upholding strict environmental and safety standards while handling hazardous materials associated with semiconductor manufacturing
* Executing routine maintenance on equipment such as pumps, filters, and valves, ensure component specification compliance and coordinating with fab operations to upgrade equipment to improve efficiency and uptime

**Personal Project – Image Analyzer/Beverage Production Nov 2021 - Present**

* Designed Python program that can import images from phones and identifies regions with higher edge density and create heat maps highlighting these regions for analysis in force carbonation and drink production
* Developed and adjusted sensitivity parameters using training data to tailor program for automated analysis, adding object tracking functionality to track carbonation using acidity indicators and foam formation

**Community Outreach Research at Arizona State University Mar 2020 – Jan 2021**

* Handled sensitive interview subject information maintaining anonymity while retaining accurate data collection concerning HPV vaccine Gardasil-9 amongst youth populations
* Evaluated community attitudes towards Gardasil-9 to implement community outreach programs, improving vaccination rates and by extension, lowering HPV infection prevalence
* Consulted with disproportionately affected minorities to understand the effects of Covid-19 on vulnerable populations and published research results in the Asian Journal of Pediatric Research

**Skills**

Programming: Python, C (Arduino)

Software: Autodesk CFD, SolidWorks CAD, Microsoft Office Suite, Certified Adobe Associate

Technical: P&ID, Intel BCD Technician Level 1 Certification

**Activities/Awards/Publications**

* Awarded prestigious President’s Endowed Scholarship by TAMU worth over $100,000 through outstanding academic performance and leadership experiences
* Chen, A. C. C.,Reifsnider, E., Oh, L., Hock, G., Vemuri, R., Lim, L., & **Lu, D.** (2020). HPV and Vaccination: An   
  Analysis of YouTube Videos. Promoting Research in Social Media and Health (PRISM) Health Symposium (December 3-4).