

## **BME Undergraduate Summer Internship Experience at Stanford University**

This summer, BME undergraduates Jarinyagon Chantawannakul and Zijing Li participated in an overseas internship at Stanford University's research labs. Their project focused on developing an affordable vein detector for pediatric use, aimed at improving venipuncture procedures.



The interns started with an in-depth literature review and proceeded to design a custom LED circuit as the main light source. Despite facing issues like interference from their initial imaging equipment and compatibility problems with subsequent devices, the duo applied their engineering skills in soldering and 3D printing to overcome challenges and refine their prototypes. Feedback from their project supervisor and lab members was integral in improving each design iteration.



Outside of their project work, Jarinyagon and Zijing explored campus life. Jarinyagon took up rock climbing at the university's gym, and Zijing spent time exploring Palo Alto and connecting with a diverse group of peers. These activities provided a balanced and enjoyable summer experience. Looking back on their internship, both students appreciated the opportunity to enhance their technical skills and learn the importance of balancing work with personal interests. The experience was educational and provided both personal growth and professional skill development.

Their successful internship underlines the valuable opportunities provided by the BME department, encouraging future students to pursue impactful experiences on a global stage.