

Technical Innovation and Product Prototyping

Summer 1, 2022

Silicon valley

A Pride City of USA – Securing our Future

Why Silicon Valley?

Silicon Valley is the Innovators' and Entrepreneurs' dream world!
Silicon Valley is ground zero for customer driven technology evaluation, innovation, invention and prototyping.
Silicon Valley is an ideal location for Inspiring interactive and non-traditional college learning experience.

When?

May 15 – June 17, 2022

Who is eligible?

Students across the entire University, who are highly motivated and naturally curious about how things work, mainly, for rising sophomores and juniors, who are interested in technical innovation, technology transfer, startup companies, product prototyping and the culture of entrepreneurship in the region.

Outcome!

Experimental and Interactive Learning Experience on Innovation, Prototyping, and Entrepreneurship.

Courses:

- GE2010: Introduction to Customer-Driven Technical Innovation – Silicon Valley
- GE2030: Introduction to Product Prototyping – Silicon Valley

Institutional Experience

Multiple Company and Institutional visits



Interactive Experience

Interactions with Leaders, Innovators and Entrepreneurs



Innovation Experience

New Ideas, New Products, New Business Plan via Innovation



Smart Skin Tester: Inexpensive method to diagnose the pore sizes, acidity, hydration, and oil levels of an individual's skin.

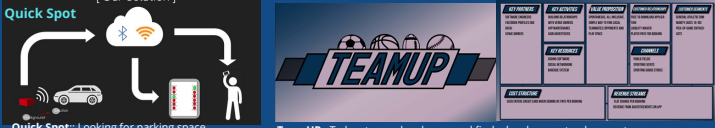
NavICap: How can we improve the daily life of the blind in terms of Navigation, Social Interactions, Safety, and Daily Living Costs?

Seat Tracker: To minimize the amount time that students spend looking for a seat.



Regalo Project: Highly portable modular furniture that can be customized, assembled and disassembled with the structural integrity of LEGO

FreshMeat: Using users the information to use food before it expires in order to save money on food and help the environment.



Quick Spot: Looking for parking space.

TeamUP: To locate nearby players and find a local venue to play sports

Team Work Experience

Alone we can do so little; together we can do so much. - Helen Keller



The program is looking to have students experience the technology-driven world of Silicon Valley. They will spend time understanding new technologies, what drives them, how to be prepared to be entrepreneurial, and use technology and the internet in creative ways. Students will look beyond the design of devices and problem solving, to see market forces, customer-driven needs and rapid design and prototyping in a new light via company visits, guest lectures, interviews, activities and teamwork.

Silicon Valley itself is the highlight of the program - it is the Innovators' and Entrepreneurs' dream world! We'll look in depth at 6-8 trending and growing technologies represented by start-ups and other companies in the Bay Area (e.g., Intel, self-driving cars). For each technology, students will visit a company to hear from a guest speaker. Students will also enjoy day trips and cultural activities, including visiting San Francisco.

Led by

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Social

