



UC San Diego Branch

UC San Diego

JACOBS SCHOOL OF ENGINEERING

Spring 2022 Quarterly Projects Kickoff!

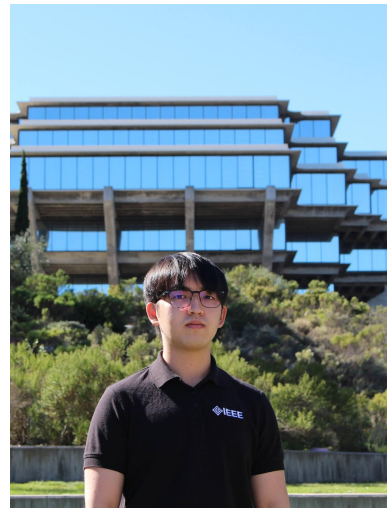


QP Chairs



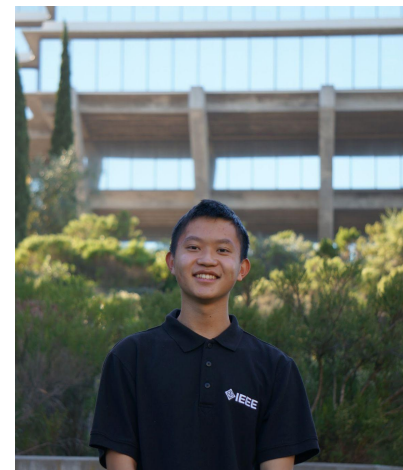
Owen Pi

- 4th Year Computer Science major w/ minors in Education Studies and Cognitive Science
- Interested in any intersections between cogsci and CS (e.g. ML/AI)
- Likes movies and board games



Kevin Chang

- 2nd Year Electrical Engineering major
- Interested in Machine Learning and Controls
- Research intern at NEATLabs UCSD
- Likes philosophy and also works at Writing Hub



More about QP

Quarterly Projects is a program to help you acquire many things:

1. A hands on, creative project-building experience to solve real-life issues with funding
2. Ability to work and coordinate with a team
3. Knowledge on how projects are created in the industry and research

THEME



Sensing



Create a device fit for sensing! Think of a standard that can be measured, but do so in a creative way!



Sensing if a person is in deep sleep? Measuring if someone is slouching using CV? Checking if someone is exhibiting COVID symptoms? Measuring the PH of a compound using cabbage juice and LEDs?



Design and prototype a sensing device that is personal to you or your team that can improve daily life!

Timeline

April 15th (Friday)	Project proposals due at 11:59PM
April 24th (Sunday)	Workathon 1
	Milestone 1 due at 11:59PM
May 8th (Sunday)	Workathon 2
	Milestone 2 due at 11:59PM
May 22nd (Sunday)	Workathon 3
May 26th (Thursday)	Final Submission due at 11:59PM
May 27th (Friday)	SHOWCASE

How to QP

- Brainstorming and planning
 - Deliverable: project proposal
- Designing and prototyping
- Development
 - Workathons (3)
 - Milestones to check in on progress (2)
 - Mandatory mentor meet-up (1)
- Project submission
 - Documentation
 - Code (if applicable)
- SHOWCASE

Project Proposal DUE NEXT WEEK

Brainstorm:

- General topic of your team's project
- The specific issue that you plan to target and your innovative solution
- A game plan
 - What do you plan to do in the next few weeks
 - What software tools are you planning to use (GitHub, firebase, Flutter, etc.)
 - What hardware would you need to buy / borrow (Arduinos, sensors, etc.)
 - What might you need help with
- Submit proposal at: <https://forms.gle/Rgkh3kgvZp5Xh1K3A>

Resources:

- Online Resources:
 - StackOverflow
 - Arduino Forum
 - Youtube
- Mentors
- Technical Workshops by IEEE
- Other teams
- QP Chairs



Communication



- Communication with us will be on two channels
 - Discord (Primary mode of communication)
 - Backup communication (email, phone, etc.)
- **#announcements:** important information will be sent here
- **#questions:** ask any questions you may have about QP, technical or general here
- **#general:** general information here
- **Teams:** Each team will have their own channel here to communicate
- **#resources:** Useful information for your team will be located here
- **#guidelines:** Contains the Entry Packet and any revisions of it

Mentors!



Team 1
Mentor: Kevin Chang
Tai Nguyen
Oscar Martinez
Paul Kim
Joshua Lapidario

Team 2
Mentor: Kevin Chang
Kamran Mapar
Steven Garcia
Burak Sahinkaya
Fahad Alkhazam

Team 3
Mentor: Owen Pi
Zian Lin
Julian Kenyon
Justin Chiang
Do heon Kim

Tem 4
Mentor: Owen Pi
Matthew Yom
Bridgette Hacia
Jason Lyu
Yuelel Li

Team 5
Mentor: Darin Tsui
Xun Liu
Akhil Pillai
Andrew Nguyen
Michael Aquilina

Team 6
Mentor: Danny Vo
Xuesi Ruan
William Chen
Tien Vu
Pulkit Goyal

Team 7
Mentor: Cheng-Yu Chiang
Zhizhen Yu
Ruilin Hu
Jack Andrews
Samer Ahmed

Team 8
Mentor: Cheng-Yu Chiang
Keng-Lien Lin
Henry Lins
Ben Liou
Alice Li
Dylan Chu

Questions?



TODO

- Meet with your team and mentor!
 - Introduce yourself to your team and find the best way of communicating with your team!
 - Set a meeting time to discuss and brainstorm potential projects
- Join the discord: <https://discord.gg/TcEeBC72jj>
- **Project Proposals due April 15th**