2021 FIRST California Workshop Series: PRODUCT DEVELOPMENT + DESIGN THINKING

<u>Session 6</u>: User Testing February 20, 2021





Theresa Bateman

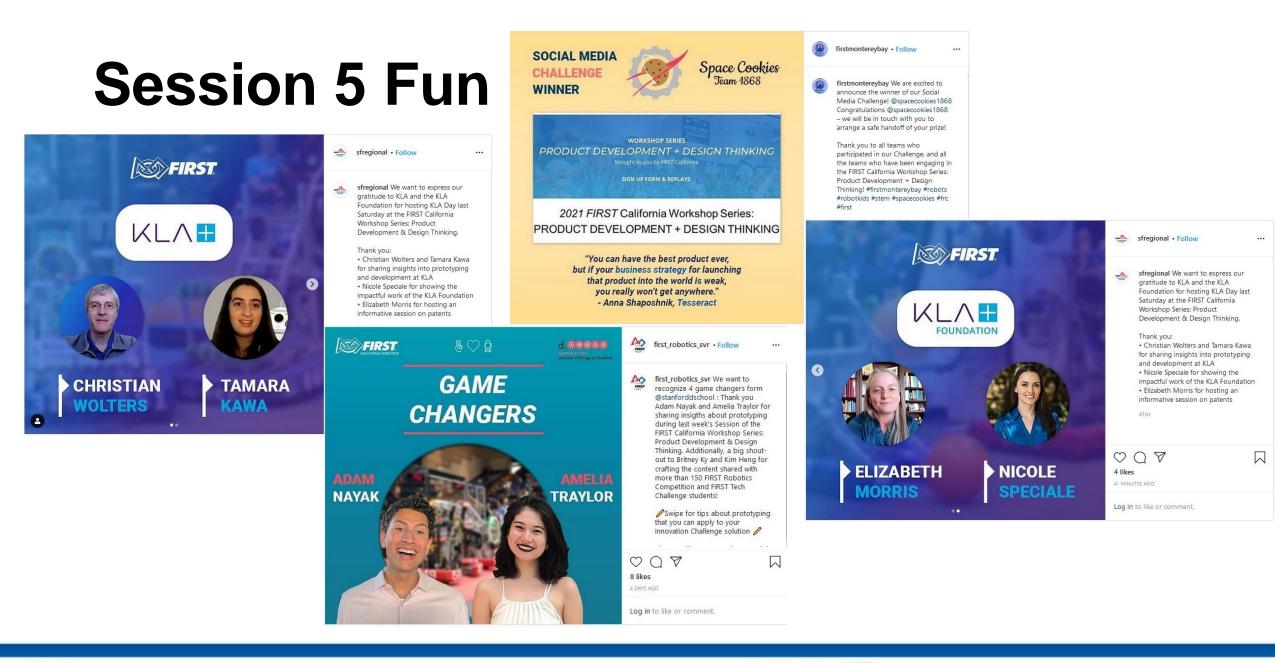
FIRST Regional Director, Greater San Francisco Bay Area



Session 6 User Testing

Time	Agenda Item	Presenter
10:00 - 10:10am	Welcome & Session Recap	Theresa Bateman, FIRST
10:10 – 10:50am	Design Thinking – Test	Divya Nagaraj, Stanford Sidra Nadeem, Stanford
10:50 – 11:50am	Overview of Lyft Bikes, Qualitative & Quantitative Testing at Lyft	Nadia Eldeib, Lyft Brady Law, Lyft Varna Vasudevan, Lyft
11:50 - 12:00pm	Wrap up and Q&A	Theresa Bateman, FIRST





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Strategy & Navigation	Ideation	Filtering & Evaluation	Business Analysis	Prototype & Development	User Testing
Identify the Opportunity	Generate Ideas	Evaluate Ideas & Filter	Determine Business Strategies	Develop the Idea	Product Trial
 Evaluate the Innovation Challenge Criteria Design Thinking - Empathy & Define Problem Statement Intellectual Property intro 	 Design Thinking - Ideate Brainstorming Diversity & Inclusion of Ideas 	 Product Design Specification Concept Sketches Pugh Analysis Matrix SWOT Analysis Market Analysis 	 Strategy for Startups Product-Market Fit Value Proposition Innovation S-curve Prepare the Pitch 	 Design Thinking – Prototype User Experience Design Engineering Reliability Manufacturability Patents 	 Design Thinking - Test Test/Experiment Design A/B Testing Qualitative Testing Quantitative Testing
Jan 9 th , 1-3pm	Jan 16 th , 10am-Noon	Jan 23 rd , 10am-Noon	Jan 30 th , 10am-Noon	Feb 6 th , 10am-Noon	Feb 20 th , 10am-Noon

Teams are invited to connect with a *Team Advisor* and join a *Pitch Party*. *FIRST Regional Directors* will provide details.



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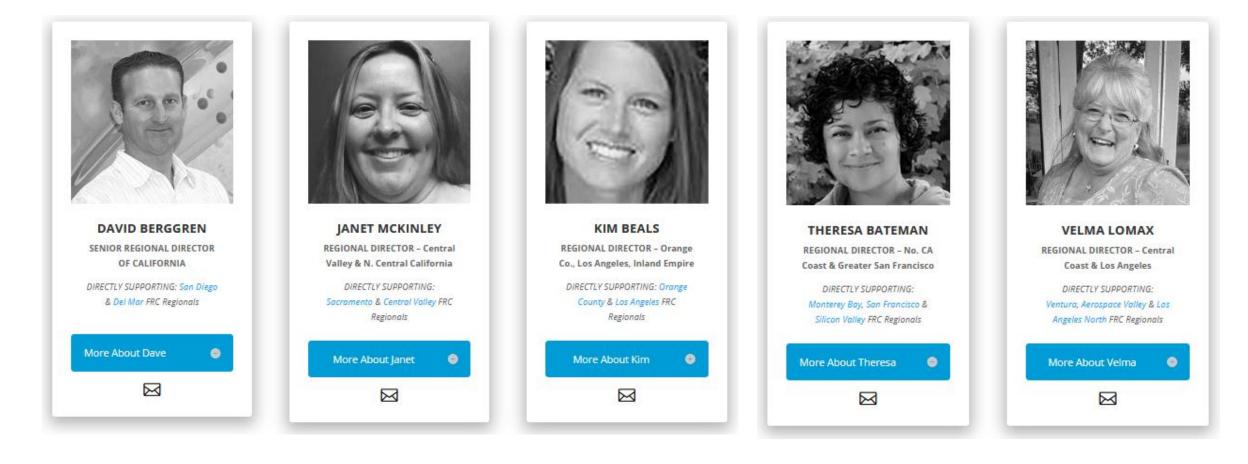
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FIRST California Regional Directors

https://cafirst.org/california-leadership/





Session 5 Recap



Prototype & Development Strategies

- Design Thinking Prototype to gain empathy
- Prototype quickly to fail fast and iterate
- Scenes/Props/Roles sets up the test environment
- High resolution prototyping considers manufacturability/reliability

Homework

- Develop a working prototype
- Determine where & how to test your prototype, using Scenes/Props/Roles
- Run low stakes testing to confirm the solution





Divya Nagaraj & Sidra Nadeem

Stanford University Students





Nadia Eldeib, Brady Law & Varna Vasudevan



Session 6: User Testing

wrap-up and closing of

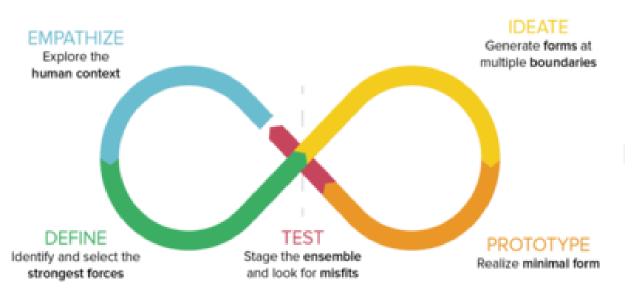
2021 FIRST California Workshop Series



Series Wrap Up

- Homework
 - Identify research questions & hypothesis
 - Draft a test plan
 - Conduct user testing & iterate





- Award Submissions Dates
 - Innovation Challenge: March 4th
 - Game Design Challenge: March 4th

Noon Pacific Time!



Additional Resources

- FIRST CA Workshop Series
 - Session replays and slides available at

https://cafirst.org/product-development-design-thinking/

- FIRST Innovation Challenge Content Series
 - Webinars and replays available at
 <u>https://info.firstinspires.org/innovation-content-series</u>



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