



Dell STEM Challenge 2018-19

Introduction: About Dell

From unconventional PC startup to global technology leader, the common thread in Dell's heritage is an unwavering commitment to the customer.

Dell empowers countries, communities, customers and people everywhere to use technology to realize their dreams. Customers trust us to deliver technology solutions that help them do and achieve more, whether they're at home, work, school or anywhere in their world.

Since the first Dell PC was introduced in 1986, Dell has continued to shape the industry by breaking new ground and pioneering critical developments in home, small business and enterprise computing. We gather requirements directly through tens of thousands of daily customer interactions, organized events, social media venues and customer panels. Maintaining strong internal development capabilities, we spur innovation that delivers value to customers.

Dell's research and development efforts now span the globe, driven by some of the industry's foremost product designers and engineers. At the core of Dell's innovation approach; however, remains an unwavering commitment to deliver new and better solutions that directly address customer needs.

Dell Challenge

Predicted Problem Statement:

Develop an innovation that improves digital equality at CVCA. What technological advances, software, or devices would improve the educational experience at CVCA so that students are prepared for today's workforce? Research Dell products and software, and advanced technology that exists today, to come up with a solution that either improves upon technology that currently exists or creates new technology to improve the learning experience for students at your high school.

Organize your project into the below phases, allocating specific time to each:

Phase I. Research existing technology that educators use. Think about what you wish you had during the school day or in your class to advance your educational experience. Is there a device, app, software, or system that you've researched and think would be helpful? What does Dell already have in these areas, and how can you either create a new innovation that does not exist or improve on what is already in existence?

Phase II. Narrow your focus. What is your solution and how is it similar, and different, from what already exists? Who is your target audience? Do background research into



your area of focus - how does Dell approach digital equality, are there any new technologies, data, or products in this focus area?

Phase III. Pitch your idea! Run it by your mentors - is your idea feasible? Is it too simplified or too complex, does it adequately explain the area of focus and how it works within Dell?

Phase IV. Use wireframes and visual design to map out your solution. If your solution is an app, work with your mentor to begin initial coding. If this is a prototype, draft your design. This part of the process should include providing a draft of a deliverable to your mentor for feedback before you work on creating the final solution.

Phase V. Prototype and present your idea. You will have a designated amount of time to prototype your idea. Make sure you are ready to do this by having your design finalized before moving forward. Create a visual, interactive presentation in a way that allows the audience to see what it looks like to use your app or solution, and how it is helping CVCA and your fellow students.

Resources:

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