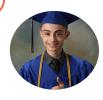




Diverse Makers



Daniel Minichetti Team Leader



Kane Davidson Architect



Eduardo De La Rosa QA



Elleana Negrelli Recorder



Aaron Ramirez Customer Communica tor



CS Faculty Michael Leverington



Capstone Mentor Vahid Nikoonejad Fard









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- Unfortunately learning opportunities in STEM aren't equally accessible to those with disabilities
- Makerspaces offer hands-on STEM learning outside school
- Our project, led by Dr. Jared Duval aims to build a collaborative mobile app used between makers and disabled individuals



Jared Duval

Assistant Professor - SICCS NAU

Director of Playful Health Technology Lab





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Limited Access to Makerspaces

Many makerspaces are not physically accessible to individuals with disabilities

Lack of Learning Resources

 Current STEM materials and maker project guides do not cater to diverse learning needs

Social Isolation in STEM

Those with disabilities face social barriers leading to a lack of community

Technological Barriers to Entry

Existing software products are not designed with accessibility in mind



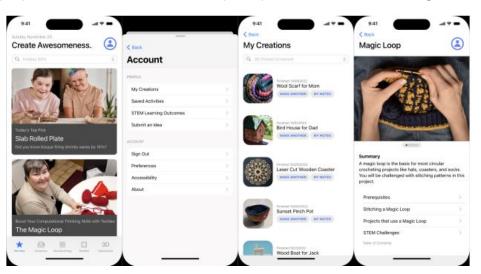




Making STEM More Accessible



- Our crowdsourced mobile application will act as a centralized hub for sharing STEM projects, resources, and training for people with disabilities.
- Our primary objective is to provide enjoyable, accessible, intuitive, and valuable tools to disabled populations, which will help improve STEM learning outcomes.



Development Plans

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Monthly Client Meetings

- Ensure alignments and discuss project objectives
- Identify and develop a plan to tackle larger development challenges

Technical Challenges

- Creating a user friendly experience for disabled individuals
- Multimedia integration within the app
- Developing a cross-platform mobile application utilizing Flutter or React Native

Our Plan

- 1. Create early conceptual models for layout and architecture of the app
- 2. Create UML diagrams to visualize structure of project
- 3. Communicate with stakeholders to better refine our goals





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- Learning opportunities in STEM are not equally accessible to disabled populations.
 - Limited access
 - Lack of learning resources
- Our application will act as a central hub and will provide learning resources to disabled people.
- We will consult and engage with disabled people throughout our development process in order to gain a better understanding of the application requirements.
- This project will improve STEM learning outcomes by providing accessible and valuable tools to those who need it.







Thank you! Any Questions?



