



Fostering STEM identify development through localized engineering for LGBTQ+ youth displaced by housing insecurity

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Project type: Exploring Theory and Design Principles (ETD)

Project URL: <http://deboer-lab.engineer>

Project Overview: The project will develop and research a model for engaging LGBTQ+ youth experiencing housing insecurity in an engineering education program through a three-year Design-Based Research.

(Big takeaways so far)

Identifying the assets of LGBTQ+ learners, their teachers, and the community is essential to creating contextually relevant engineering curriculum and associated learning technologies.

ITEST APPROACH in PROJECT RADICAL

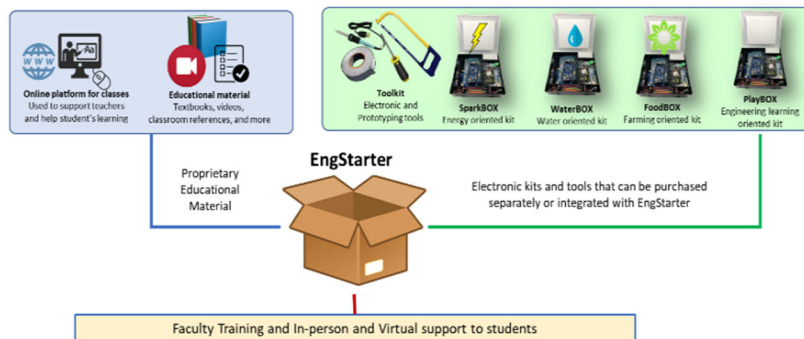


Figure 2 EngStarter Technology and its associated components

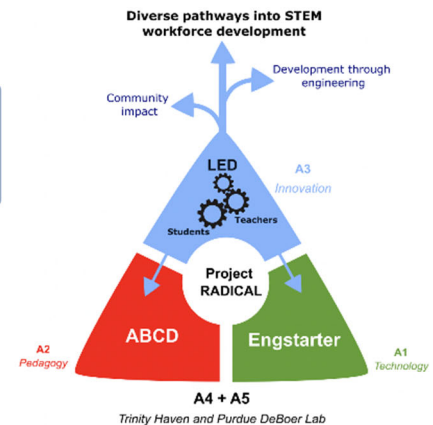


Figure 1 Integration of ITEST goals in Project RADICAL

Equity

- We have conducted multiple planning and relationship-building meetings with our partners to understand their requirements and have started engaging them as co-researchers in the design-based research process
- As part of our asset-based approach, we conducted discussions with prospective learners to identify their current and future interests and onboarded them as co-designers of their engineering curriculum and the learning technology

New Challenges & Next Steps

- Integrating the assets and goals of Trinity Haven learners into the adapted curriculum
- Collaborative planning on scheduling and approaches to support social emotional learning and application