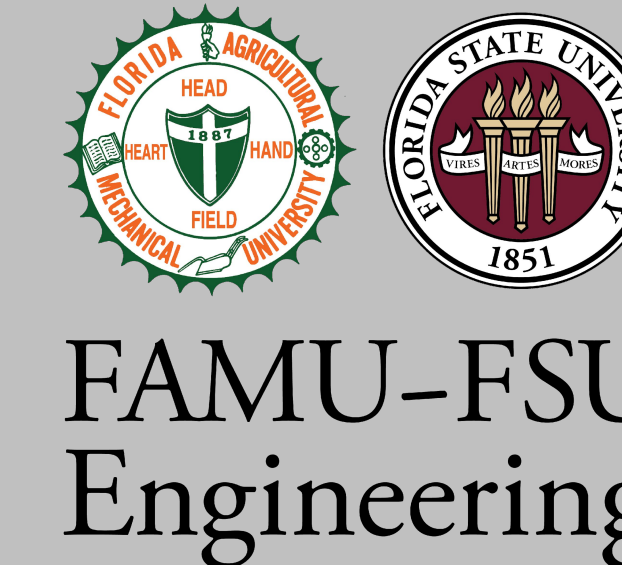


Team 505: Pop-Up Classroom

Team Members: Valeria Bernal ◦ Kyle Jackey ◦ Yahdid James ◦ Michael Johnson ◦ Jean Roquebert ◦ Daziyah Sullivan

Sponsor: Peter Butler ◦ Rashad Aziz

Faculty Advisor: Shayne McConomy, Ph.D



Project Need

Application

- Educational Experience
- Military Use
- Disaster Relief Efforts

Scope

- Collaboration, nomadic, intuitive design
- User controlled



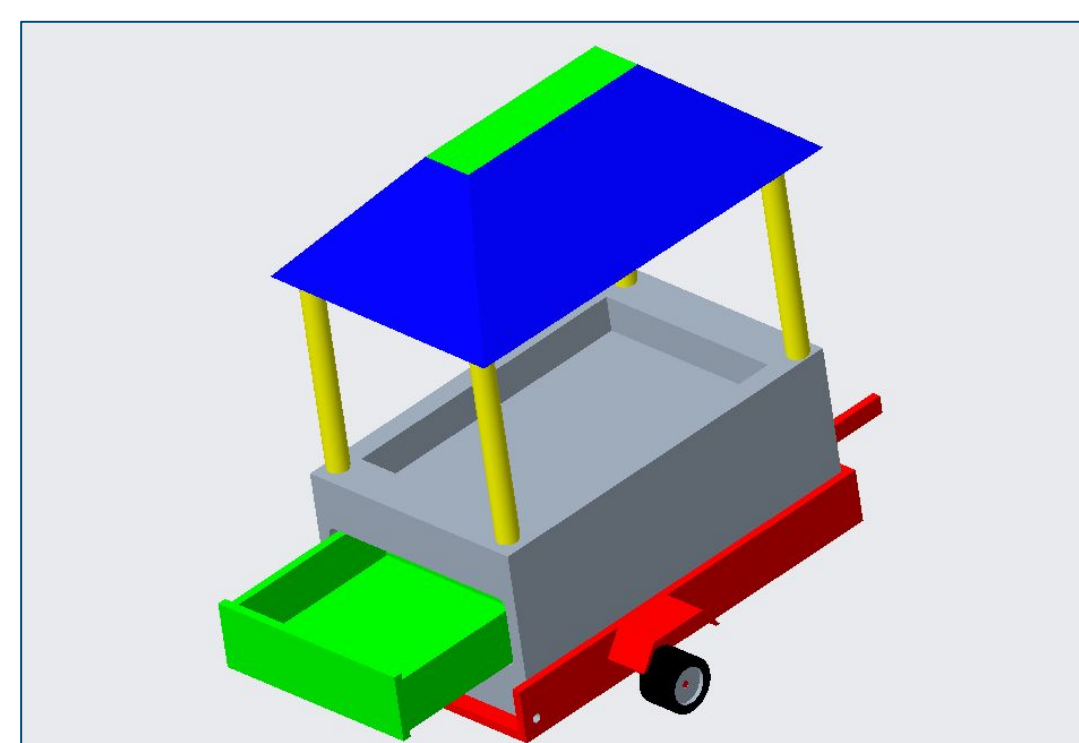
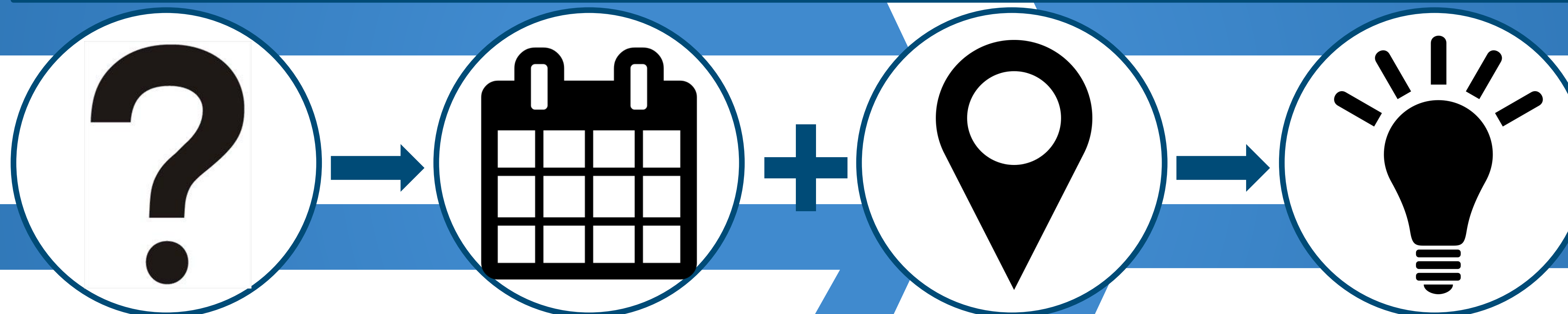
Customer Needs

- Mobility
- Seating Options
- Environmental Protection
- Typical Media Display Devices

Functional Decomposition

- Mobility
 - Transport
 - Assembly
- Connectivity
 - Wireless Connection
 - Structural Layout

To Provide an Educational Environment with an “Anytime, Anywhere” Attitude



A technology-enabled gazebo.

Concept Components

- Towing Feature
- Multiple Projectors
- Storage Compartment for Extra Materials

Metrics Verification

- Simulations in CREO Parametric
- Survey of User Experience
- Simulations in CREO Parametric



Assemblage Departments

- Roofing
- Electrical Connections
- Base Structure
- Online Platform

Proposed Project Solution

Project Construction and Testing