

Computing Capstone Framework

Research a Problem

- Problem Identification and Justification
- Identification and Analysis of Current Solutions
- Identification of Initial Steps Necessary and Skills Required to Work in Related Fields

Create an Initial Idea Document

- Brainstorm Ideas about Project Ideas
- Propose Topics for Exploration
- Create a List of Goals and Objectives
- After Successful Iterations and a Proof of Concept, Entrepreneurship may be Explored

Design a Solution

- Design a Complete Solution to the Problem Identified
- Create a List of Tasks Required to Implement the Solution
- Choose a Reasonable Number of Tasks to address During the Course
- Identify the Skills Required to Complete the Tasks
- Create Architectural Documents required

Create a Prototyping and Testing Plan

- Choose Languages and Hardware
- Create a Prototype that Demonstrates a Proof of Concept
- Logging and Unit Testing will be incorporated if appropriate
- If applicable, a Conceptual Marketing Plan may be Created

Evaluate and Reflect

- Individual Conversations about Status, Challenges, and Next Steps
- Project Modification
- Identify Another Iteration for Further Exploration