CPRE 288 Final Project

Team member responsibilities

Team Name: SF-PG4

Team Collaboration

Team Member	Contribution
Dawud Benedict	 Designed prototype sketches. Wrote the application narrative. Developed improved scanning and object point calculation. Worked on movement functions with Armondo. Assisted Chris on gap detection and navigation. Improved the main function with a movement to dummy point for bump and cliff avoidance.
Armondo Reyes	 Leader in user research and empathy map development. Created calibration functions for cliff sensors, movement, and IR scanning. Improved oi sensor reading. Documentation of code. Added sound implementation. Worked with Dawud to build bump and cliff reaction and avoidance functions.
Chris Marchitto	 Developed the problem statement. Created functional requirements tables. Documentation of code.

	Leader in gap detection and midpoint calculations.
	 Utilized trigonometry to develop a grid layout that tracks the bot's position and direction.
	Made the main function and depot locations.
	Worked with Connor to implement UART codes to send to the GUI.
Connor Grim	Created GUI with UART communication to the bot.