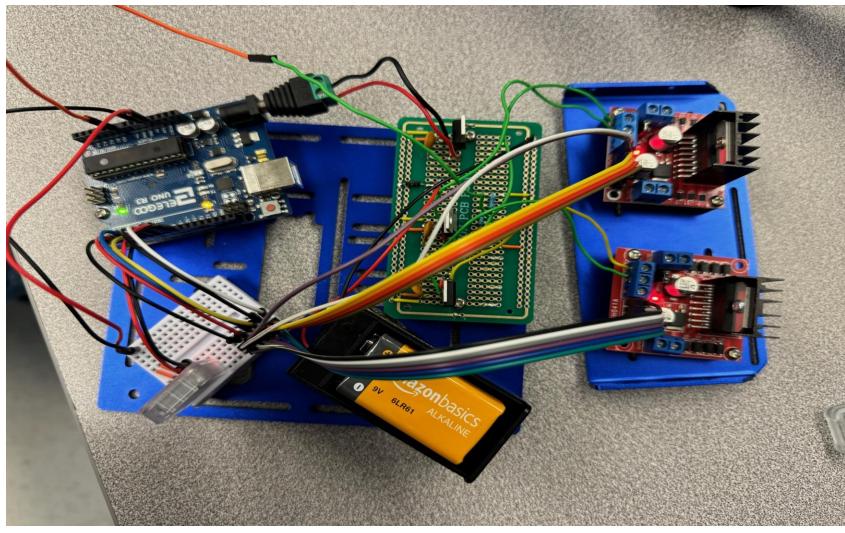


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Abstract:

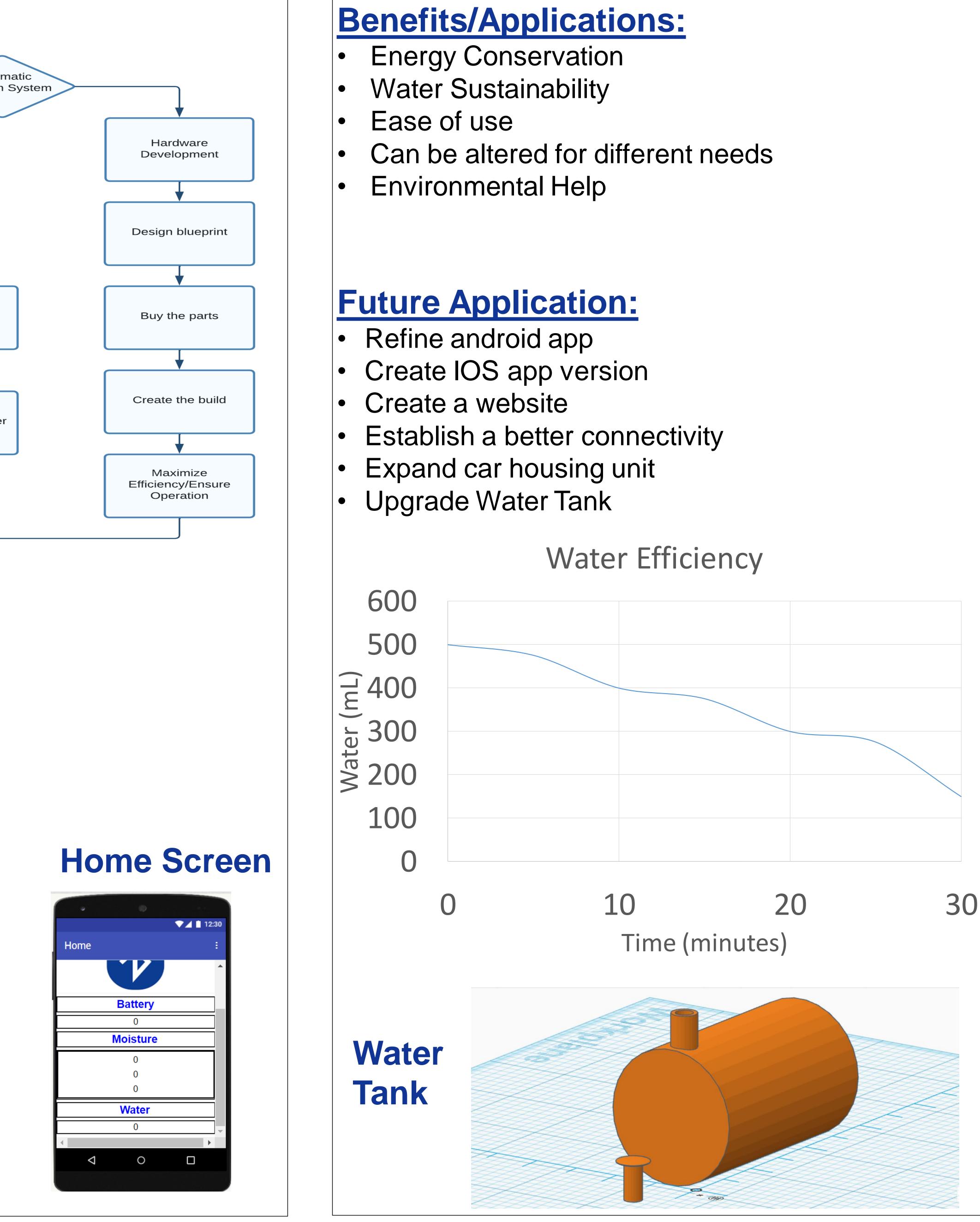
Design: This project aims to develop an automatic irrigation Automatic system utilizing Arduino, soil moisture sensors, and an Irrigation Systen automatically controlled car, with data uploaded to the Software cloud. It addresses water sustainability by reducing Developmer water costs for homeowners and simplifying lawn care by efficiently watering areas needing moisture. Web Server and App Developmer Sensors prevent water wastage by indicating areas requiring watering. An accompanying app facilitates access to device information. The system comprises Amazon Web **MIT App Inventor** Services an automatically car for water distribution and soil moisture sensors spread across the lawn. The project aims to mitigate excessive water usage in Code the App Code the Web Server conventional sprinkler systems, positioning itself as a more efficient lawn care solution. Ensure Combined **Objectives:** Funcationalitv Maximize efficiency, power and water consumption Working Project • Transfer data via Bluetooth and a website Automize the cars movement to several sensors Upload data relating to moisture values, battery health, and water levels Broadcast all data to a mobile app and a cloud **Starting Screen** software. 💎 🖌 📋 12:3 **Initial Hardware**

- Create an automatic irrigation system



School of Natural Sciences, Mathematics, and Engineering

Automatic Irrigation System with The Use of An Arduino, Moisture Sensors, and Automatically Controlled Car Students: Jacob Castro, Jan Ed Dominick Cristobal Instructor: Amin Malekmohammadi



Department of Computer and Electrical Engineering and Computer Science