



Figure 1. Schematic diagram of the proposed system architecture. The system is designed to be a self-contained unit, capable of operating in a stand-alone mode. The architecture is based on a microcontroller (MCU) that is connected to a variety of sensors and actuators. The MCU is responsible for processing the data from the sensors and controlling the actuators. The system is designed to be highly flexible and scalable, allowing for the addition of new sensors and actuators as needed. The system is also designed to be highly reliable, with a focus on fault tolerance and error handling. The system is designed to be easy to use and maintain, with a focus on user interface and documentation. The system is designed to be highly secure, with a focus on data protection and access control. The system is designed to be highly efficient, with a focus on power consumption and performance. The system is designed to be highly adaptable, with a focus on software updates and configuration changes. The system is designed to be highly compatible, with a focus on interoperability and integration with other systems. The system is designed to be highly robust, with a focus on environmental protection and durability. The system is designed to be highly reliable, with a focus on long-term operation and maintenance. The system is designed to be highly secure, with a focus on data protection and access control. The system is designed to be highly efficient, with a focus on power consumption and performance. The system is designed to be highly adaptable, with a focus on software updates and configuration changes. The system is designed to be highly compatible, with a focus on interoperability and integration with other systems. The system is designed to be highly robust, with a focus on environmental protection and durability.

