

Overview:

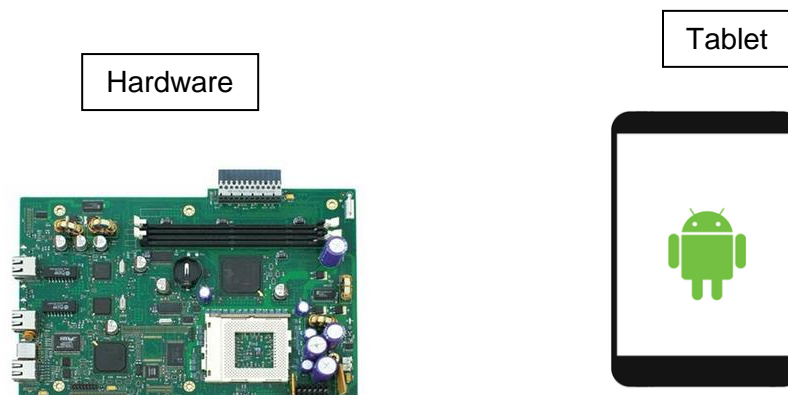
Siemens Healthineers, Point of Care provides point of care products and services that enable healthcare providers to render better patient management and help ensure optimized clinical outcomes. Point of Care provides innovative solutions in the blood gas, cardiac, diabetes and urinalysis markets.

As a next step to develop Siemens Healthcare and express who we are and how we want to be recognized in the market, we created a new name: Siemens Healthineers. The new name embodies our pioneering spirit and our engineering expertise in the healthcare industry. It is unique and bold and gives a new identity to our organization and to our people.

We exist to make healthcare providers successful by offering solutions that improve outcomes and reduce costs. We aim to become our customers' inspiring partner. Our company culture will guide us in realizing our strategy to develop trusted partnerships with customers. This will only be possible with the people working in our company, focused on our strategy and principles.

Siemens Healthineers, Point of Care is requesting the design of an accessory low cost Human Machine Interface (HMI). The HMI should be an open frame Android tablet with a touch screen interface and an LCD screen that can display text and graphics. The team's main objective is to create a working prototype with long-life components while reducing cost.

System Diagram:



Team Description:

- Three Electrical Engineers and three Computer Engineers with the ability to work collaboratively as a team as well as individually to complete tasks.
- Knowledge of industrial electrical components is a plus.
- Knowledge of PCB board layout, android, microprocessors, Ethernet, WIFI, Bluetooth, RFID, accelerometer, gyroscope, sensors, and barcode is beneficial.
- Prototype and test experience.

Deliverables:

- Detailed circuit design of HMI
- Costed Bill of Materials
- Descriptions and reasoning for performance and tradeoffs
- Working prototype

Siemens Healthineers Point of Contact:

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