**SD Team 310 2024 – Biomedical Sensing Unit for Astronauts**

**Operation Manual**

The biomedical monitoring for astronauts sensing sock is easy and intuitive to use.

1. The first step is to put the sock onto the astronaut’s foot. Ensure that the sensors sewn into the sock align with the toes of the foot. Be careful not to damage any cabling or sensors while putting on the sock.
2. To operate the device, begin by powering it up by connecting a battery. The device runs on five AA batteries. The microcontroller will automatically power on and begin taking sensor readings.
3. Sensor data will be displayed on the LCD screen and any anomalous readings reported as an audible alarm.
4. To obtain the readings wirelessly please connect the RFID reader to a computer. Install compatible software that works with the RFID reader and use the software to interrogate the onboard RFID chip. Any RFID reader and software supporting the appropriate frequency range will work.
5. Data is also written to the attached SD card automatically. No further configuration is required to use the device. If required, the device may be reset by pressing and holding the reset button briefly. That is how our device works.