Miguel Manguerra

Profile

Education

Relevant Skills



Professional Experience

Electrical Engineering Co-op, Starfish Medical Sep 2022 – Dec 2022 | Victoria, Canada

- Designed and built custom PCBs for a variety of medical devices.
- Analyzed analog and digital circuits using electronics lab equipment.
- Developed documentation in accordance with requirements of ISO 13485 and IEC 60601.
- Performed experiments to determine the most appropriate path forward to developing a reliable and safe medical device.

Electronic Prototype Engineering Co-op,

Ergonomyx Technologies 🛮 Sep 2020 – Aug 2021 | Victoria, Canada

- Led a team of four to develop and prototype a
- universal smart desk controller that can control any type of existing motorized sit stand desk. • Designed a USB-A charging PCB that could
- charge a smart phone or an iPad from the power generated by a user's pedaling.

Product Designer - Software,

Dometic (formerly SeaStar Solutions) 🛮 Jan 2020 - Apr 2020 | Vancouver, Canada

- Performed system level testing on electronic systems with complex CAN networks.
- Analyzed data recorded on CAN buses using Vector's CANalyzer.

Community Involvement

University of Victoria Environmental Sep 2021 – Sep 2022 | Victoria, Canada

- Designed a Smart Power Board that monitor and control four different power lines.
- Led the design of the USV's plethora of electronics, including the Central Controller Board, and its custom built 6S 9P battery.

Projects

Some of Miguel's current projects include an open source Smart Programmable Load and a Voron 2.4 3D printer. For more information about his projects visit his project portfolio at the link attached: 🛮

References

Available upon request