

Electrical Engineer

Job Profile:

As an Electrical Engineer, you will be working with robot team to develop a house care robotic system. You are responsible for all stages of a product/specifications/approvals/conformance, from research and development to design and fabrication/manufacture, through to installation and final commissioning.

Scope of Responsibilities:

- *Conduct technical analysis to validate designs, including but not limited to: product design, system/component integration, reliability analysis and development.*
- *Perform detailed circuit design and analysis to verify design requirements, simulation and the generation of schematics, PCB layout, BOM, soldering & testing, assembling, mounting, wiring, harnessing, integration and testing.*

Accountabilities of the Position:

- *Delivery of the electrical design documentations such as electrical diagram design, PCB design, wiring design, etc.*
- *Delivery of design and technical report.*
- *Robotic system integration, testing and troubleshooting, etc.*

Qualification & Skill:

- *5+ years of experience in analog and digital system development in a product/ R&D environment.*
- *Bachelor or master's degree in Electrical Engineering or equivalent.*
- *Deep understanding and experience on communication by USB, I2C, SPI, UART, CAN, RS485/RS422, RS232, and Ethernet.*
- *Experience on wireless communication for data, video and audio by Wi-Fi, wireless Ethernet, Bluetooth, and other equivalent wireless system.*
- *Experience on motion control system including motors, motor driver, and motion controller.*
- *Design experience in embedded system design including microcontroller circuit, power electronics, battery monitoring, Analog I/O, digital I/O, PWM, and audio amplifier.*
- *Proven skills in board level schematic & PCB design, BOM; module level wiring & harness design.*
- *Hand-on skills on soldering fine components, assembling, wiring, testing and documentation.*
- *Proficient in using various test equipment including but not limited to: oscilloscopes, multi-meters, power supplies, function generators, logic analyzers and computer controlled test equipment.*

- *Experience on electrical design tools and software packages for schematic, PCB design& simulation.*
- *Experience in C++ and programming for PLC, industrial PC from manufacturers like Beckhoff (TwinCAT)*
- *Experience in system design for EMC/EMI/ESD requirements and certificate.*
- *Experience in electric safety design and functional safety /safety PLC system.*
- *Experience in Industrial Robot and Mobile robot.*
- *Excellent written and verbal communication skills to clients/potential customers.*
- *PENG is an assessment.*

Company Profile:

ANVIV Mechatronics Inc. is developing AI-Embedded Robotic Products. As a ANVIV team member you will be working with curious and inquisitive people to develop AI systems for practical robot applications. You will work on designing, developing, training and deploying a variety of AI solutions onto a mobile robot and arm systems. Utilizing your technical skills. As a member of this start up company, your work will have an emphasis on robustness and real-world application. If you are interested in joining us, please submit your resume to: [John Wang \(john@anviv.com\)](mailto:JohnWang@anviv.com).

ANVIV Mechatronics Inc. welcomes all qualified candidates.