The Axiomatic electronic design team will realize your control or power product requirements.

Collaboration

We work closely with our customers to understand their application requirements and provide innovative, efficient and reliable product solutions.

Innovation in Controls Design

Axiomatic has developed a wide range of technology building blocks leading to control, power conversion and motor drive solutions. Our commitment to continuous R&D for circuit and product development leads to innovation, energy efficiency and cost-effective technology. We utilize the latest industry standards and tools for design.

New Product Introduction Process

Our New Product Introduction (NPI) process is both agile and rigorous with controlled gateways. Product development uses a data analysis based approach. Engineering design capabilities include: electronics schematic design; multi-layer circuit board layout design; 3D mechanical design; thermal modelling; MTBF analyses; product validation; as well as software design and modelling. All controls are evaluated for performance during the design process. Third party testing is utilized for environmental testing, CE marking, type approvals, UL/CSA or equivalent recognitions and more. Axiomatic responds to customer based planning and part approval processes such as FMEA, APQP, FAI, and PPAP.

Integrated Manufacturing

Axiomatic prototype and production-ready controls are manufactured in-house at our ISO 9001 facility in Mississauga, Ontario, Canada.

Axiomatic designs and delivers rugged automation and power management controls worldwide.

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AXIOMATIC Global Electronic Solutions

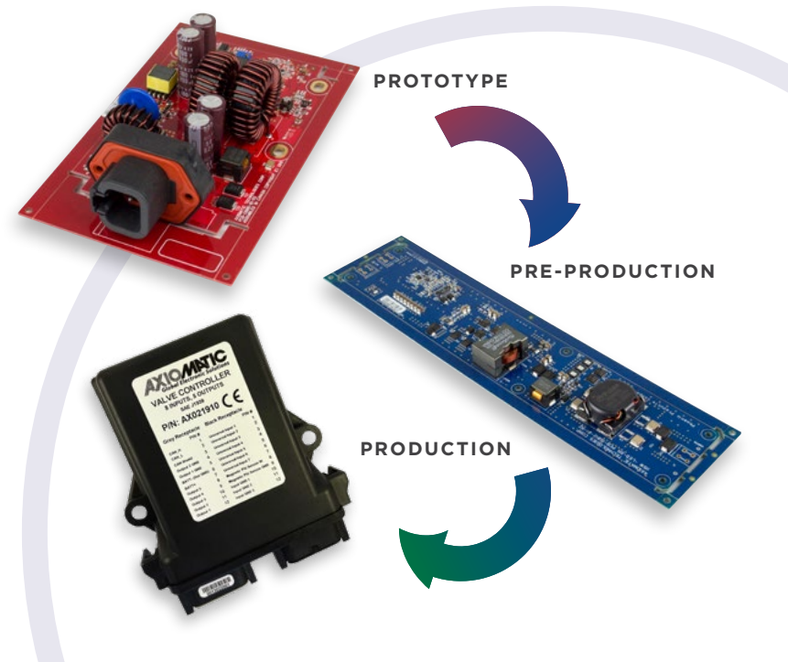
AXIOMATIC Global Electronic Solutions

YOUR AUTOMATION DESIGN PARTNER

Since 1991, Axiomatic has been designing compact and reliable control products for machines working in harsh environments. We have developed a wide range of design skills for improving machines with electronics. Axiomatic products are installed in construction vehicles, mining equipment and systems, on-highway trucks, municipal and transit vehicles, rail systems, power generators and marine propulsion systems, hybrid or electric vehicles, and industrial plant automation. Our main operation and ISO 9001 manufacturing facility is based in Canada. With a facility in Finland and a presence in Australia our footprint is expanding worldwide.

axiomatic.com

DESIGN STAGES



AUTOMATION SOLUTIONS:

Optimize machine efficiency and performance.

ANALOG, DIGITAL & ENHANCED I/O

(for Signal Conditioning, Measuring, Converting, Controlling of Outputs, and Datalogging)

CONTROLS FOR ENGINE MANAGEMENT + DATA ACQUISITION (TC & RTD Temperature Monitoring, I/O)

HYDRAULIC VALVE DRIVERS + CONTROLLERS

understand + innovate + solve

CONNECTIVITY SOLUTIONS:

Convert, connect, extend, and communicate with machines in harsh environments.

VEHICLE + ENGINE PROTOCOL CONVERTERS, GATEWAYS, SWITCHES, ROUTERS

(Automotive Ethernet, Ethernet TCP/IP, Modbus, POE, RS-485/422/232, CAN, CAN FD, LIN, WiFi, Bluetooth)

MACHINE CONTROL SOLUTIONS:

Measure machine position, angle, rotation, acceleration, and load.

MACHINE CONTROL SYSTEMS, INCLINOMETERS, GYROSCOPES, LASER RECEIVER + LEVEL SENSORS

POWER MANAGEMENT ELECTRONIC SOLUTIONS:

Improve system reliability and drive machine functions.

AC/DC, DC/DC CONVERTERS, POWER SUPPLIES + BATTERY CHARGERS + SURGE SUPPRESSORS

DC, BLDC, PMSM & STEPPER MOTOR DRIVES + ACTUATOR CONTROLS