MACSEMA, INC.
ENGINEERING SERVICES

CAPABILITY STATEMENT

Design
Development
Prototyping

Software
- Business Solutions
- Embedded Systems
- Firmware
- Microcontrollers
- PC Based
- ASM, C, OOP, VB, MATLAB
- .NET, JAVA, Android, iOS
- Delphi, Javascript, PHP

Electronic
- Digital and Analog
- 8-32 bit Microprocessors
- CPLD and FPGA
- Schematic Capture
- SM Circuits
- Single/ Multilayer PCB Layout

Mechanical
- Detailing and Drafting
- Materials Selection
- Manufacturing and Assembly
- Testing

Communications
- Networks
- Wireless
- Wired
- Sensors
- Bluetooth
- RFID

North American Industry Classification System (NAICS)
- 541330
- 541420
- 541511
- 541512
- 541712
- 541990

CAGE CODE: 03BF3

MacSema is a specialized engineering company offering smart electronic design, development and manufacturing services. Our decades of experience enable us to quickly comprehend and respond to our client's unique project requirements. The integration of our software, mechanical, electronic, and communications engineering services is supported by a reliable group of manufacturing partners. Using agile management, we deliver complete solutions that save our clients the time and costs involved in dealing with multiple vendors. Incorporated in 1990.

Past Performance and Successes (2011 - 2016)

Major OEM (Transmission Memory Module)

Client required the development of a transmission external memory module to capture and store fault codes from the data bus. The solution involved the integration of a ruggedized electronic / mechanical design, software, comprehensive environmental testing and the manufacture of the finished product.

Major Commercial Airline (Aircraft Component Tracking System)

Client required an ATA Spec 2000 compliant inspection and maintenance software package to satisfy the FAA 14 CFR 121.1109 inspection rule. The rule mandates the tracking of the supplemental inspections of replaceable structural components on the carrier's commercial aircraft. The solution involved both PC and handheld software and the integration of Automatic Identification Technology (AIT) devices (Contact Memory Buttons, RFID, etc.). System is in use fleet wide.

Major Aerospace Maintenance Repair Organization (Turboprop Aircraft Engine Monitor Module)

Client required the development of an externally mounted module to monitor and record engine operating time and cycles. Unit had to be stand alone, self-powered and use no batteries. The solution involved the integration of a piezo based vibration sensing technology with a ruggedized electronic / mechanical design, software and comprehensive environmental testing. Module is FAA approved.

Key Contact

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"Turning ideas into realities"

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