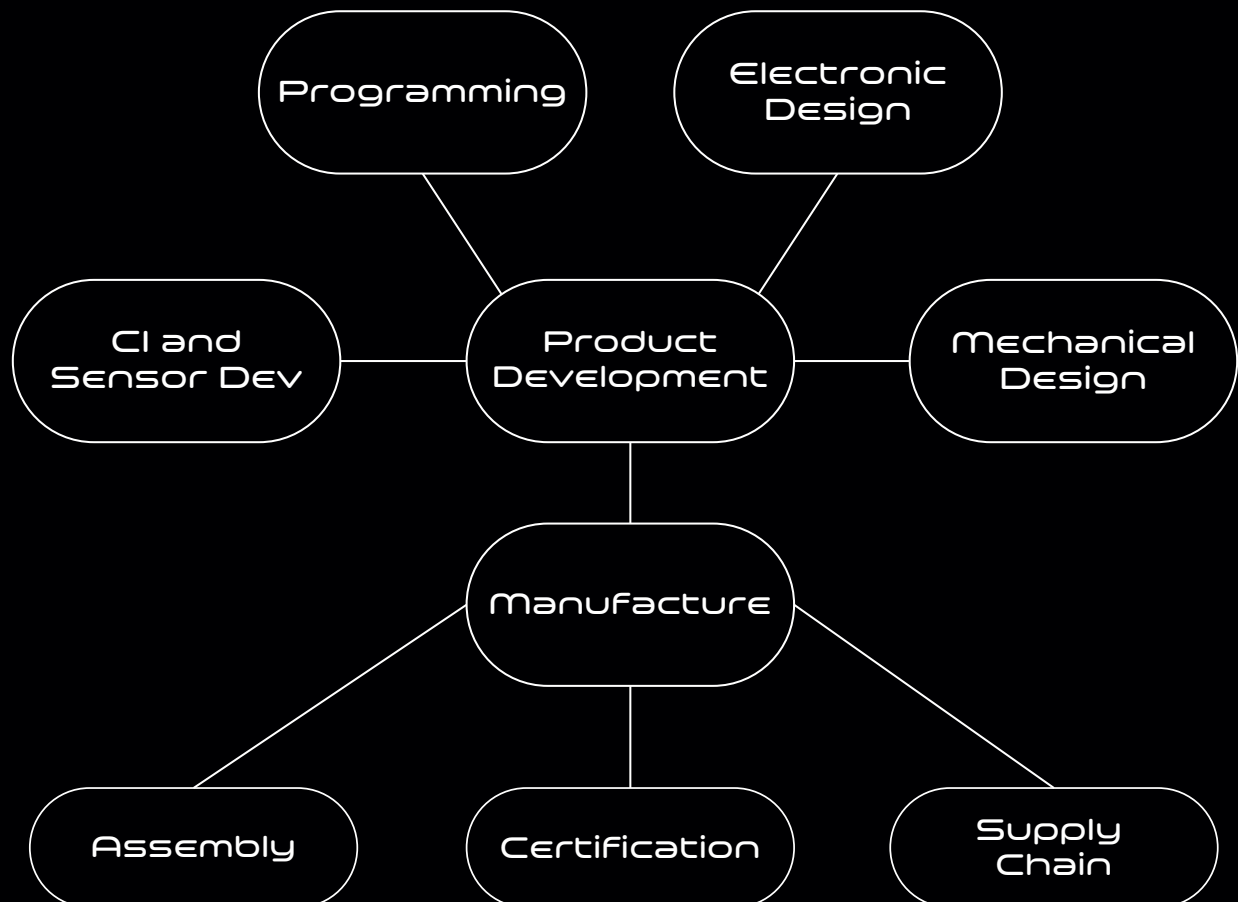# QSM ®

Advanced Electronics Laboratory

QSM Semiconductores

Our Services

Our team of experienced product development engineers are ready to help you during the development of innovative solutions and their implementation, including electronic and mechanical design, prototyping, supply chain development, technology transfer and manufacturing.

```
              Programming          Electronic
                                     Design

  CI and          Product                Mechanical
Sensor Dev      Development                Design

                 Manufacture

     Assembly      Certification      Supply
                                       Chain
```

QSM

Electronic Design
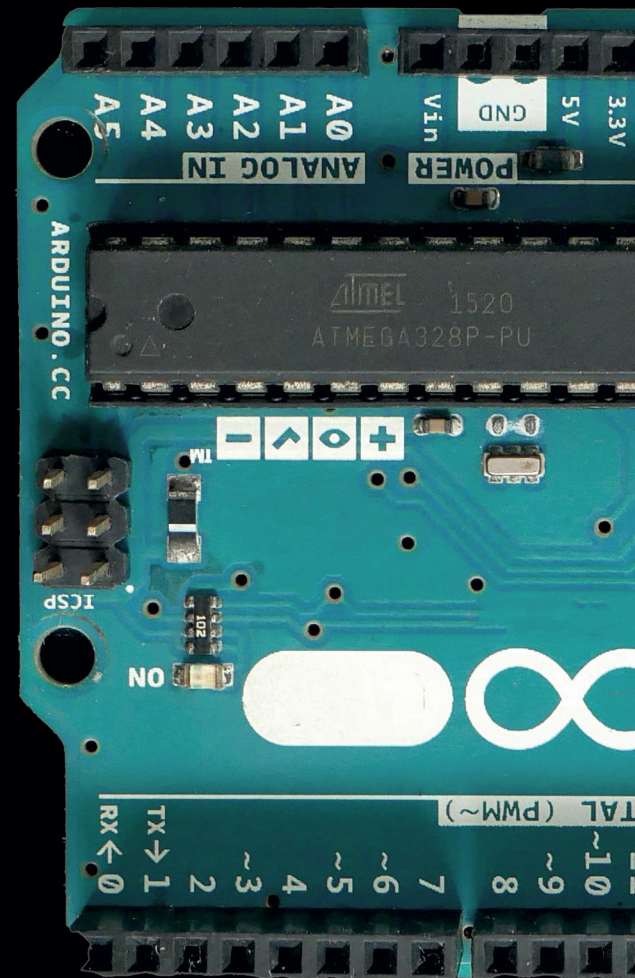
CIRCUIT DESIGN

Design of digital, analog, power and mixed electronic boards (PCB).

MICROCONTROLLERS

Digital design with Microcontrollers of TI, ST and Arduino brands.

DESIGN WITH FPGA

Digital design with Field Programmable Gate Arrays (FPGA). Tests and Verification.
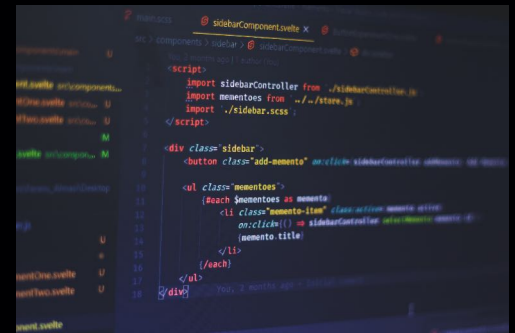
Programming

RTL (VHDL/VERILOG) LAYOUT

Design and implementation of RTL code, verification and test benches. IP Core Development.

PROGRAMMING AND FIRMWARE

Firmware development Matlab, Python, assembler, VHDL, Verilog

AR AND VR DEVELOPMENT

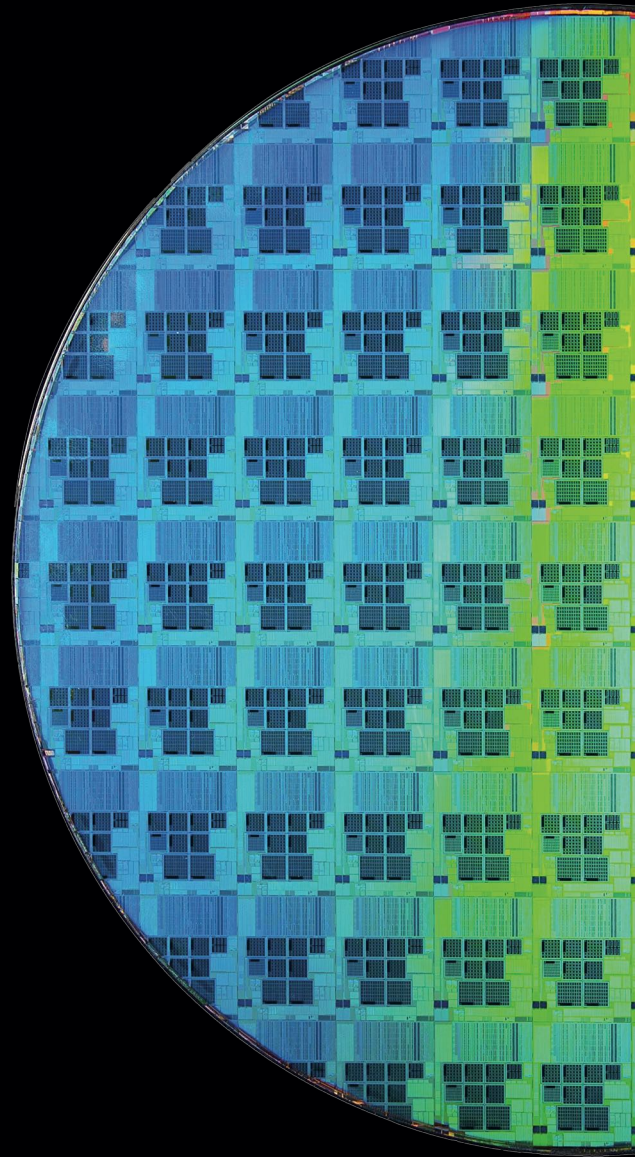Digital design with Field Programmable Gate Arrays (FPGA). Tests and Verification.

Integrated Circuit and Sensor Design

FUNCTIONAL VERIFICATION

RTL code verification and preliminary implementation tests on FPGA. Development of test benches.

PHYSYCAL DESIGN

Layout design under specific Process Design Kit (PDK). Manufacturing and validation tests.

qsm

Product Development

MECHANICAL DESIGN

Design of carcasses and packaging for products. 3D printing prototyping and validation tests.

TECHNOLOGY TRANSFER

Supply chain development, PCB assembly in SMT lines, development of plastic injection molds.

qsm.

CONTACT

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