M-Tecks EAC

MECHATRONIC AND MECHANICAL R&D
MECHANICAL AND MECHATRONIC ENGINEERING
SUBCONTRACTING MANAGEMENT
PRODUCTION AND ASSEMBLY

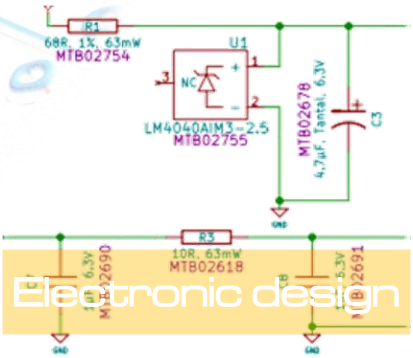
MECHATRONICS ENGINEERING

Take advantage of all our integrated skills (electronics, mechanics, IT).

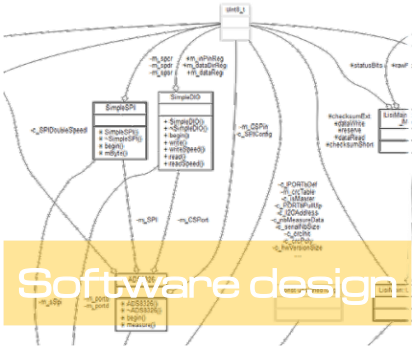
KNOW-HOW – RESPONSIVENESS

$$f = \frac{1}{2\pi RCln\left(1+2\frac{R_2}{R_1}\right)}$$

Mathematics

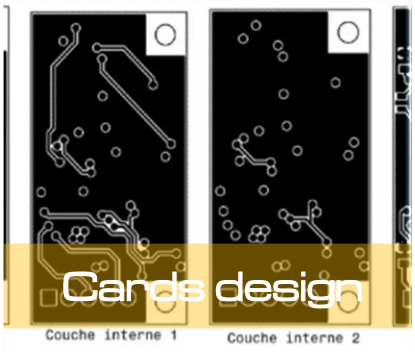


Electronic design



Software design

Sofware



Cards design

Production

Industry 4.0

M-Tecks EAC is approved **Research Tax Credit** and **Innovation Tax Credit** by the General Directorate for Research and Innovation.

RoHS COMPLIANT
NORME REACH

More details on our website
www.M-TecksEAC.com

EN 9100 — Mechanical and mechatronic engineering (research in robotics, innovative process and products, technical calculations, process design)

ISO 9001 — Mechanical and mechatronic engineering (research in robotics, R&D process and innovative products, sizing calculations, design of production means, subcontracting and manufacturing management, manufacturing and assembly)

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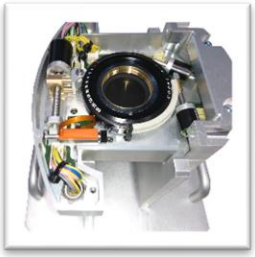
EXAMPLES OF ACHIEVEMENTS

Development of a mobile robotics solution

- Technological brick-oriented design
- Study of robotic solutions adapted to their environment
- Implantation of decision-making autonomy with the help of an AI

▸ Defence

Automation of a mechanical shutter



- Implantation of sensors and motors
- Wiring minimalization
- Integration in a restricted area

▸ Aeronautics

Specific and connected automation (for Industry 4.0)

- Embedded PC solution
- Embedded software developed under Python
- Multiple inputs and outputs (digital, analogue: 0-10V, 4-20 mA)
- Adaptive design

▸ Industry

Adpative and intelligent production tool

- Small electronics design for a lightweight solution
- Embedded software written in C++. Designed for quick response time
- Stain gauge sensing: data formatting and sending to main tool through I2C protocol
- 4 layers PCB design

▸ Aeronautics

Electronic card production

- Small run production
- Prototype wiring
- Soldering of components by reflow oven and infrared radiation
- Tests

▸ Industry

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