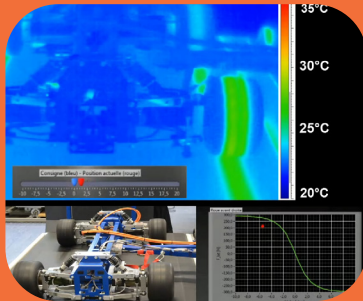


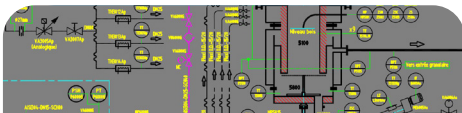


CREDEM

**Design, prototyping
and testing of
electromechanical devices**

WHAT WE OFFER : SERVICES & EXPERTISE

- Engineering consultancy and technical support at any step of the design, manufacturing, and performance assessment of a device / machine / setup
- Access to characterization infrastructure and equipment with appropriate technical support
- Hosting your prototype/pilot plant, with access to support and equipment



Electromechanical Design

- Design & creativity methodologies
- P&ID (AutoCAD)
- CAD of parts and assemblies (Solidworks, Inventor)
- Drafting & tolerancing



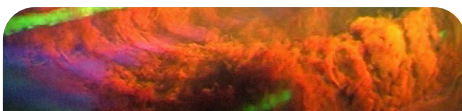
Mechanical Prototyping

- CNC machining & cutting
- Additive manufacturing
- Welding (TIG, MIG)
- Mounting, painting, sand blasting
- Metrology



Electrical & Control Prototyping

- NI LabView, Siemens SIMATIC, dSPACE, Texas Instruments DSPs
- Wide range of machine & process sensors
- PCB & electrical circuits



Advanced Testing Equipment

- Electrical & thermal motors test benches, power analyzer
- Combustion bench, drop tube furnace, gas analyzers
- Robotized towing tank, low speed wind tunnels
- PIV, high speed, thermal cameras
- Laser Doppler vibrometer
- Etc.



Fields of application

- Mechatronics & bio-robotics
- Thermal engines and combustion
- Electrical energy production and transformation
- Multibody systems & vehicle dynamics
- Fluid mechanics
- Process engineering
- Etc.

CONTACT

Platform manager

Benoît Herman

responsable-credem@uclouvain.be

+32(0)10/47.96.71

Secretariat

+32(0)10/47.22.00

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