

[Pro]<sup>M</sup>

MECHATRONICS  
PROTOTYPING  
FACILITY

industrial research

prototyping

mechatronic products  
development

ProM

Facility

ProM Facility offers fast prototyping and product development services by combining conventional mechanics with the most advanced and sophisticated systems for 3D printing, artificial intelligence, component testing and prequalification.

Here is a prototyping facility for start-ups and for companies seeking to research, develop, manufacture and test mechatronic systems and products.

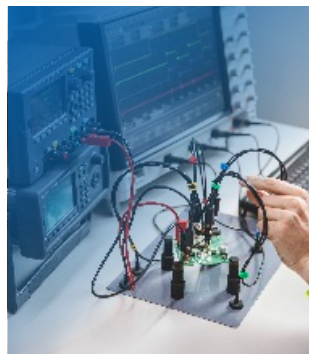
It also offers students, undergraduates and PhD candidates research projects and training of excellence based on the application of transversal skills.

The facility is able to propose to technical staff members of mechatronic divisions occasions for refreshing and specialised training in a dynamic and state-of-the-art context.

The project is carried out thanks to European funds from the Autonomous Province of Trento



## strategic programs



**automotive**, especially optimisation of components for racing and for man-machine interfaces

**aerospace**, design and production of components for drones and satellites

**biotech & sport-tech**, including the development of robot joints, 3D printed prostheses, reconstruction of anatomical parts using 3D imaging

## enabling technologies

### 3D printing

Additive manufacturing (using polymers and metals) and hybrid (additive/subtractive) manufacturing

### Information Technology

High Performance Computing, Internet of Things, Artificial intelligence, Deep Neural Network, Cyber Security

### Mechanics

CNC mechanical processing, pipe and sheet metal laser cutting

### Electronics

Prototyping of integrated electronic circuit boards, charac-

terization and qualification of components and systems

### Metrology

Geometrical and dimensional verification, 3D reverse engineering, X-ray tomography, mechanical testing and climatic chamber testing



## network

- SMACCT Competence Centre del Nord Est
- DIH / Confindustria Trento
- SpeedHub / Confindustria Verona
- INFN - Padova
- Vanguard Initiative
- SDAM Alliance