

MILOS PANIC

MECHATRONIC ENGINEER

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PROFILE

A highly skilled Mechatronic Engineer with **8+ years** of experience in **Food industry, R&D, robotics, and automation**, specialising in precision engineering and manufacturing solutions. Experienced in commissioning, troubleshooting, retrofit and optimization of automated machinery, with hands on knowledge of PLC, drives , robotics, electrical and mechanical systems
Proven expertise in leading projects that reduce costs and improve production efficiency, aligning with standards for high-quality engineering. Working with multicultural teams across different projects in high demanding environments.

EDUCATION

dipl. ing. MECHATRONIC ENGINEERING

- University of Novi Sad, Faculty of Technical Sciences, Serbia
- Relevant coursework:** Robotics, Hydraulics ,Pneumatics, Automation Systems, Industrial Engineering, Automotive industry

WORK EXPERIENCE

- Field Service Engineer (Oct 2025 – Oct 2026)**
Borncut, Urk, Netherland
 - Commissioning, troubleshooting and servicing automated food-processing machinery at customer sites.
 - Diagnosing mechanical, electrical, automation and control system issues and restoring machines with minimum downtime.
 - Performing machines retrofit and modification work, including installation, testing and validation.
 - Preparing technical service reports, troubleshooting documentation and corrective-action recommendations.
 - Supporting aftermarket and service solutions, including the Maintance in the Box concept.
 - Providing technical support to customer and collaborating with R&D, production and engineering teams
- R&D Mechatronic Engineer (Nov 2023 - Nov 2024)**
Insist Elektrik, Novi Sad, Serbia
 - Developed fully automated production line for BMW parts, 7 different refferences fully assembled, measured, labeled, packed without hardware changes
 - Developed and implemented **adaptive robotic systems**, reducing production times and downtimes due to lower maintenance and faster equipment adaptation. Designed and tested innovative manufacturing solutions in compliance with **ISO 9001 standards**.
 - R&D for specialized machines** building in automotive and food industries.
 - Rapid prototyping** and upgrading of existing systems. Planning and modifying products or services to meet customer needs.
 - Requirements Engineering, FAT, SAT, Clean room enviroments ESD protection**

KEY SKILLS

- Robotics & Automation:** Beckhoff, Interoll, Mitsubishi, ABB, Fanuc robotic arms; inhouse adaptive gripping systems developing and manufacturing; vision systems Sensopart, Balluff, Sanyo Denki, Weiss turn tables, Maytech systems.
- Software Proficiency:** SolidWorks, Siemens NX, AutoCAD, Unix-based systems, CAD/CAM, PLM systems.
- CNC & Machining:** 3D printing ,CNC operations, laser engraving, rapid prototyping, reverse engineering.
- Process Improvement:** Predictive maintance, Maintance in the Box, Lean, Kaizen, Pokayoke, MES systems, JIT systems, Monotsokuri.
- German Industry Knowledge:** Familiarity with Industry 4.0, ISO standards, and green engineering principles.
- Programming:** PLCs, Siemens S7, Mitsubishi GX works, ROS2 and C basics.

High School Teacher (Oct 2019 - July2023)

Technical School Nikola Tesla, Vukovar, Croatia

- Helped students of all levels develop both theoretical knowledge and practical skills from **mechanical**, **automation** and **engineering** courses.
- **3D modelling**, machining, **CNC** (cutters, lasers, milling, turning), industrial automatics, robotics, automotive engineering etc.
- Organising extracurriculum classes for **reverse engineering** & **rapid prototyping**.

Consultant Engineer Mechatronics (March 2021 - May 2023

Strojoremont, Vukovar, Croatia

- Leading different group of specialist in multidisciplinary projects in various heavy industries.
- Working on **retrofitting** old machines specialised in rubber extruding and mixing procedures into new automation standards, PLC , SCADA, VFD, HVAC
- Coordinating heavy machinery maintenance and repairing procedures with exterior contractors and main factory.
- **R&D and manufacturing of biomass extruder** press and biomass dehumidifiers.
- **PLC, SCADA, VFD, HVAC for biogas electric systems**

Field Engineer (Sep 2018 - Dec 2019)

Access Control Systems, Novi Sad, Serbia

- Installed and maintained complex access control systems across industrial sites.
- **Enhanced system reliability** by troubleshooting and resolving integration issues, achieving a 98% uptime. Working in stress environment with minimum downtime

Laboratory Technician (Sep 2017 - Dec 2019)

Faculty of Technical Sciences, Novi Sad, Serbia

- Conducted research and practical experiments in **robotics** and **industrial engineering**.
- Led student workshops and improved hands on manufacturing among students.
- Taught practical subjects related to industrial management and process optimization, presenting complex material in a manner that was both clear and engaging.

CERTIFICATIONS

- **Hybrid Bonding Systems** | Hirata Engineering Germany/ Hirata Corp Japan (2023)
- **Siemens Milling Machines** | Vukovar (2020)

KEY PROJECTS

- **Maintance in the box:**
Created a program for aftermarket customer support spare parts with preassembled parts and support through video and animation
- **Beckhoff diagnostic test station**
Test station for verifying crucial machine parts and validating after refurbishing procedures
- **BMW Component Assembly System:** Designed a fully automated assembly line, increasing efficiency by 300% and aligning with Industry 4.0 standards.
- **Hirata Japan technical support** and official partners for Serbia, Hybrid Bonding specialist for **Continental Serbia**
- **Heating Pump Quality Control Station for Danfoss:** Engineered an inspection station that reduced defect rates by 60% reducing downtime and increasing overall profit

LANGUAGES

- Croatian/Serbian - native
- English - C1
- German - A2