



DRAGOȘ MIRCEA

ROBOTICS AND AUTOMATION PROFESSIONAL

CONTACT

+40 725 104 201

dragos.mircea@erasystems.ro

www.erasystems.ro

Bucharest, ROMANIA

EDUCATION

“Gheorghe Asachi”

Technical University of Iasi

**Bachelor's degree Field Of
Study Mechatronics, Robotics,
and Automation Engineering**

2000 - 2006

“Gheorghe Asachi”

Technical University of Iasi

**Diplomat Engineer Field Of
Study Automatic Control and
Computer Engineering**

2000 - 2006

ABOUT ME

I invest a lot of time and passion to become the best at what I do.

SKILLS

- Programming and operating on Fanuc, Staubli & ABB industrial robots.
- 3D design environments, offline programming and simulation for robotic applications: FANUC RoboGuide, ABB RobotStudio.
- Designing and programming for the automated PLC systems: Siemens, Phoenix Contact.
- Technical design and industrial robotized cell layout design.
- Programming and configuration of SICK safety systems.
- Designing industrial security systems, active and passive.
- Electrical design for industrial control systems.
- Mechanical design for fastening devices and advanced gripping systems.
- Designing of operating pneumatics and vacuum systems.
- Programming and configuring frequency converters.
- Programming languages and platforms:
FANUC Robot Language, ABB RAPID, Siemens Step7, Siemens WinCC, Siemens TIA Portal, Phoenix Contact PC Works, Phoenix Contact Visu+, Schneider TSX PLC, PL7 PRO.
- Artificial vision systems: Fanuc Robot Vision 2D and 3D, ABB Robot Vision: Sensor Control AB - OPTIMASTER II RG, Meta Vision SLPS Seam Finding and Tracking System.
- Robotized technologies to track conveyors: FANUC (Visual) Line Tracking, ABB Line Tracking.
- Virtual design and digital processing:
Autodesk AutoCAD 2D/3D, CATIA 3D, Solid Works, E-Plan Electric.

DRAGOȘ MIRCEA

ROBOTICS AND AUTOMATION PROFESSIONAL

EXPERIENCE

Era Systems

2012 - Present

Owner and General Manager

Field: Automation & Robots Integrator

Company site: www.erasystems.ro

Expertise: Industrial robots (FANUC, ABB, KUKA, Siemens & Phoenix Automations)

Responsibilities:

- people & resource management;
- technical & financial project management;
- business partners interfacing.

Robotsnet Consulting SRL

2006 – 2012

Technical Project Manager in Robotics & Automation Engineering

Field: Automation & Robots Integrator

Company site: www.robotsnetconsulting.ro

Expertise: Industrial robots (FANUC, ABB, KUKA)

Responsibilities:

- projects & people management;
- mechanical design, electrical engineering, software development;
- solutions implementation & delivery;
- technical documentation building & operating personnel training.



DRAGOȘ MIRCEA

ROBOTICS AND AUTOMATION PROFESSIONAL

PORTFOLIO:

Applications in aerospace industry, automotive industry, nuclear, energy, rail, fuel production, wood & metal, ceramics and others in Romania and abroad:

- **Client: Greiner Assistec SRL - Period: 2020;**

Location: G.A. Plant, Lerești; Field: Plastic parts manufacturer;

Purpose: Designing, building, assembly and commissioning of multiple robot tools, jigs, safety and automation equipment.

- **Client: Dourdin Romania SRL - Period: 2020;**

Location: Staubli Robotics Headquarters, Bucuresti; Field: Automtoive supplier;

Purpose: esign and testing for plastic parts deburring application with Staubli robots.

- **Client: Academia Tehnica Militara Bucuresti - Period: 2019;**

Location: ATM bucuresti; Field: University;

Purpose: Designing, assembly, programming and commissioning of 3 FANUC handling robot cells.

- **Client: SEGULA Integration SRL - Period: 2019;**

Location: SEGULA Factory, Mioveni; Field: Automation System Integrator;

Purpose: Technical support for commissioning of 4 FANUC robot cells for spot welding.

- **Client: Saint Gobain Glass Romania SRL - Period: 2019;**

Location: SG Plant, Calarași; Field: Glass manufacturer;

Purpose: Programming and commissioning of FANUC robot for glass sheet handling.

- **Client: KING STEEL SRL - Period: 2019;**

Location: King Steel Factory, Cristian; Field: Metal structures manufacturer;

Purpose: ABB Robots diagnosys and maintenance



PORTFOLIO:

- **Client: Biobuilds SRL - Period: 2018-2020;**

Location: Moreni, Dambovita; Field: Passive House Builder;

Purpose: Designing, assembly, programming and commissioning of 2 ABB handling robot cells for passive houses structures assembly.

- **Client: FSA Sisteme de asamblare SRL - Period: 2018;**

Location: FSA Headquarters, Cluj-Napoca;

Field: Automation System Integrator;

Purpose: Training of beginner to middle level for ABB robots.

- **Client: CM Metal Trading SRL - Period: 2018;**

Location: CM Metal Headquarters, Timisoara;

Field: Fronius Welding Systems Supplier;

Purpose: Training of beginner to middle level for FANUC robots.

- **Client: S.C. Hendrickson Romania SRL - Period: 2018;**

Location: Hendrickson Plant, Sibiu; Field: Automotive Industry;

Purpose: Designing, assembly, programming and commissioning of a FANUC painting robot cell for truck leaf springs.

- **Client: LINDE Hellas - Period: 2018;**

Location: LINDE Schimatari, Greece; Field: Liquid gas producer;

Purpose: Programming and commissioning of a Siemens PLC automation system for gas tanks filling station.

- **S.C. PolyTech Industry SRL - Period: 2017 - 2018;**

Location: Polytech Factory, Brasov; Field: Composite panels industry;

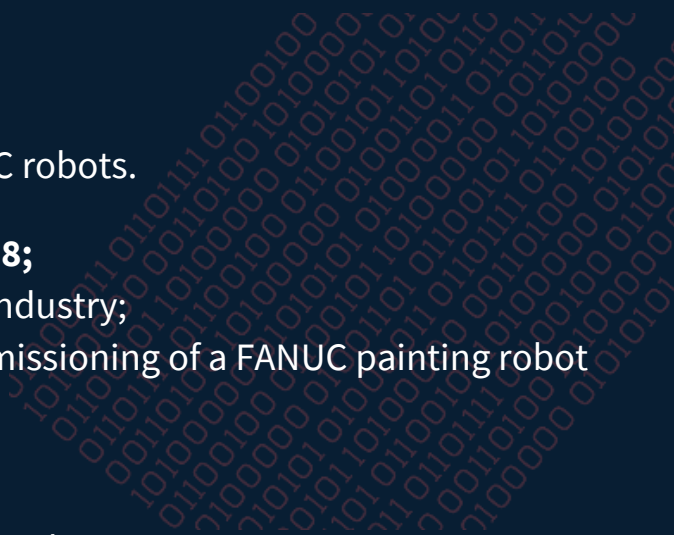
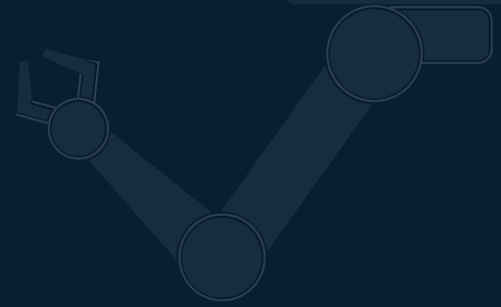
Purpose: Programming of a FANUC cutting and deburring robot cell for composite panel processing.

- **Client: TIMKEN PWP - Period: 2017;**

Field: Heavy industry, bearings manufacturing.

Location: Timken PWP Plant, Ploiești

Purpose: Designing, assembly, programming and commissioning of a FANUC robot cell for part handling of bearing rings for NDT with IBG Eddy Current testing coils.



PORTFOLIO:

- **Client: Sigma Team Technology**

Location: DACIA-RENAULT Plant, Mioveni

Period: 2017; Field: Automotive industry, automobiles manufacturing.

Purpose: Programming and commissioning of two ABB robots with a dual gripper for gearbox parts handling.

- **Client: Hendrickson Romania**

Location: Hendrickson Plant, Sibiu

Period: 2016 - 2017; Field: Automotive industry, leaf springs manufacturing.

Purpose: Designing, assembly, programming and commissioning of a FANUC painting cell, with 2 synchronized robots.

- **Client: Montana MG**

Location: Consola Green Energy Plant, Bod

Period: 2016; Field: Wood pellet production

Purpose: Reprogramming and commissioning of an automation installation with 4 Siemens PLCs that control a wood pallet factory.

- **Client: Martur Automotive Seating Systems, Turkey**

Location: Martur Plant, Oarja, Argeş

Period: 2016; Field: Seating systems production

Purpose: Designing, programming and commissioning of a software program for the control of ABB robots, used for on-line modification of mold pouring trajectories.

- **Client: Wittmann-Battenfeld Austria, Romanian Branch**

Location: Wittmann-Battenfeld Headquarters, Bucharest

Period: 2015-2016; Field: Plastic injection molding equipment

Purpose: Automation application design for W-B clients.

- **Client: Consola Grup, Bucharest**

Location: Consola Green Energy Plant, Bod;

Period: 2015; Field: Wood pellet production

Purpose: Reprogramming and commissioning of an automation installation with 4 Siemens PLCs that control a wood pallet factory.

- **Client: CM Metal, Timișoara**

Location: CM Metal Headquarters

Period: 2015; Field: Welding equipment

Purpose: Designing, assembly, programming and commissioning of a FANUC welding robot cell (6 axes robot + 2 axes positioner), used to test Fronius weld equipment.

PORTFOLIO:

- **Client: Green Power Technologies Europe, Bucharest**

Location: BG Pellets Plant, Troyan, Bulgaria

Period: 2015; Field: Pellet plant production

Purpose: Design, wiring and commissioning of automation systems for a pellet mill on logs, controlled by a Siemens SCADA System.

- **Client: Unison Engine Components Bucharest, GE Aviation Division**

Location: Unison Plant, Bucharest

Period: 2014

Field: Aerospace industry, combustor manufacturing.

Purpose: Designing, assembly, programming and commissioning of a FANUC TIG welding robot cell, equipped with a Fronius power source, Dynalog Autocal robot calibration system and a Meta Vision 3D LASER seam finding/tracking system.

- **Client: Cummins Generator Technologies Romania**

Location: Cummins Plant, Craiova Period: 2014

Field: Energy industry, generator manufacturing.

Purpose: Designing, assembly and commissioning of an anti-gravity tool support system for heavy crimping tools used for generator's stator manufacturing.

- **Client: Romanian Railway Group - GFR, Bucharest**

Location: The RELOC Company, Craiova, Dolj

Period: 2013 Field: Rail Freight

Purpose: Designing, wiring and commissioning of automation systems for the maintenance of the diesel engine in a warm state in LDE 060-DA 2100CP type locomotives.

- **Client: SC REMAR SA, Paşcani**

Location: The REMAR Company, Paşcani, Iaşi

Period: 2011-2013 Field: Manufacturing wagons for railway passenger transport Purpose:

Offline programming and simulation, the study of accessibility and robot configuration, structure and additional equipment and operation of a robotized cell with 13 axes for welding train bogies – with a FANUC robot. Advanced training for operating personnel of the cell.

- **Client: SEBA Recycling, Bucharest**

Location: The Visor LTD factory, Madan, Bulgaria - Period: 2012-2013

Field: Pellet modular production and briquetting plants

Purpose: Design, wiring and commissioning of automation systems for a pellet mill on logs, controlled by a Phoenix Contact PLC.

PORTFOLIO:

- **Client: CIE Automotive, Spain**

Location: The CIE Automotive Factory, Zdanice, Czech Republic

Period: 2012

Field: Automotive parts production

Purpose: Programming and commissioning of 4 FANUC robots, precision handling, serving four CNC machines. Security systems installation and cabling.

- **Client: Wienerberger, Austria**

Location: Wienerberger plants, Romania

Period: 2012

Field: Bricks production

Purpose: Training of middle-advanced level for the operating personnel of a palletizing cell, served by FANUC robots. Preventive maintenance to over 25 FANUC robots - M410iB/300 - Palletizing. Changing the reducer, motor, grease, making back-up and recalibration.

- **Client: Industrial Engineering Contracting, Belgium**

Location: The Ford Romania SA Plant, Craiova, Dolj

Period: 2011-2012

Field: Automotive industry

Purpose: Programming and commissioning of 6 industrial KUKA robots in glazing cells (window installation) for the assembly line model of the new Ford B-Max.

- **Client: RENAULT, France**

Location: The Renault Plant 1, Tangier, Morocco

Period: 2011-2012

Field: Automotive industry

Purpose: Installation and commissioning of 8 Spot Welding robots (welding clamps operated with electrical actuators) with varying welding pliers - Tool Changer, 1 ABB Robot for etching - VIN code, with a SICK engraving system, and 4 crimp Robotized cells Roller Hemming type, each with 4 ABB robots and 2 rotating plates (as external axes for robots).

- **Client: SC TUBORG SA Romania**

Location: Tuborg Brewery, Bucharest, Romania

Period: 2011

Field: Bottling beverages

Purpose: Periodic electrical and mechanical inspection of 6 FANUC robots. Changing the gearbox on axis 2 for 2 FANUC robots.

- **Client: SC Cemacon Zalău, Romania**

Location: The Cemacon Factory, Zalău, Romania

Period: 2011; Field: Bricks manufacturing

Purpose: Periodic electrical and mechanical inspection of 10 FANUC robots.

PORTFOLIO:

- **Client: CIE Automotive, Spain**

Location: The CIE Matricon Factory, Târgu Mureș, Mureș

Period: 2011

Field: Automotive parts production

Purpose: Programming and commissioning of 4 FANUC robots serving 4 CNC milling machines in the production line of steering boxes for FORD.

- **Client: Spumotim, Timișoara**

Location: The SPUMOTIM Factory, Poiana Lacului, Argeș

Period: 2011

Field: Automotive parts production

Purpose: Training of middle-advanced level for operating personnel of the foam casting cell, served by FANUC robots.

- **Client: Cogeme S&T, Italy**

Location: The Cogeme S&T Factory, Micești, Argeș

Period: 2011

Field: Automotive parts production

Purpose: Training of middle-advanced level for operating personnel of metal machining cells serviced by FANUC robots.

- **Client: Nuclear Electrica SA, Bucharest**

Location: Nuclear Fuel Factory, Pitșsti, Argeș

Period: 2011

Field: Production of nuclear fuel for the energy industry

Purpose: Designing, installing and commissioning of a robotic cell for precision handling, served by an artificial vision system with FANUC robot, for handling uranium pills grids.

- **Client: SEBA Industrial SRL, Bucharest**

Location: SEBA Industrial Site, Bucharest

Period: 2010 - 2011

Field: Pellet modular production and briquetting plants

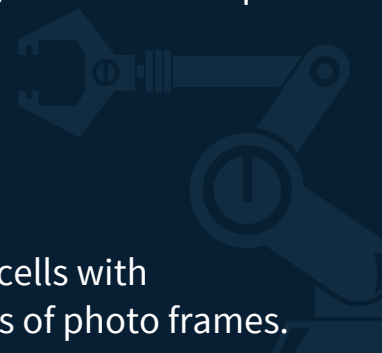
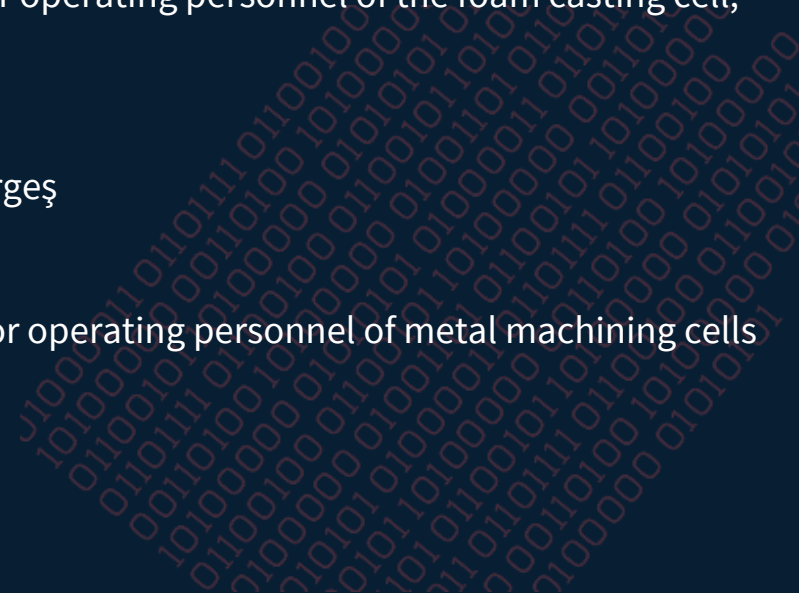
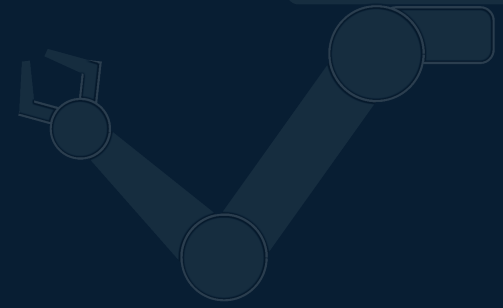
Purpose: Designing, wiring and commissioning of the automation facility for a sawdust pellet mill controlled by a PLC Phoenix Contact.

- **Client: DEKO-RAME SRL, Sibiu**

Location: The DEKO-RAME Frames Factory, Miercurea Sibiului, Sibiu

Period: 2009 - 2010; Field: Manufacturing of photo frames for IKEA

Purpose: Designing, installation and commissioning of 8 FANUC robotic cells with artificial vision system and conveyor tracking, serving two assembly lines of photo frames.



PORTFOLIO:

- **Client: REAL Hypermarket, Bucharest**

Location: REAL Stores, Romania

Period: 2009 - 2010

Field: Frozen and chilled food storage

Purpose: Designing, installation and commissioning of automation kits controlled by a GE PLC and active security system for doors on refrigerating food deposits.

- **Client: Nuclear Electrica SA, Bucharest**

Location: Nuclear Fuel Factory, Pitești, Argeș

Period: 2008 - 2009

Field: The production of nuclear fuel for the energy industry

Purpose: Designing, installing and commissioning of a robotic cell for precision manipulation with a FANUC robot. Manipulation of Uranium rods to a welding machine for ends sealing.

- **Client: Gh. Asachi Technical University, Iași**

Location: Faculty of Automation and Computer Science, Iași

Period: 2008 Field: University education

Purpose: Commissioning a FANUC robot with artificial vision system.

- **Client: Transylvania University, Brașov**

Location: Department of Product Design and Robotics, Brașov

Period: 2008

Field: University education

Purpose: Commissioning of a Sensor Control AG artificial vision system on an ABB robot; commissioning and programming of a Barret hand gripping system on an ABB robot.

- **Client: IPEC SA, Alba Iulia**

Location: The IPEC Factory, Alba Iulia

Period: 2008

Field: Pottery production for IKEA

Purpose: Designing and testing a FANUC robotic cell with artificial vision system and conveyor tracking, for handling ceramic plates out of a drying oven.

- **Client: ASSA ABLOY Romania, Bucharest**

Location: The Urbis Factory, Bucharest

Period: 2008

Field: The production of metal parts for doors

Purpose: Designing, installation and commissioning of a FANUC robotic cell for deburring and polishing door handles.

PORTFOLIO:

Designing and manufacturing mechanical parts, commissioning and training for a SCARA Adept Cobra 600 robot at the Land Forces Academy in Sibiu.

- Studying the mechanical configuration of the robot
- Studying the software to program the robot
- Designing and monitoring the application's specifics in the production of mechanical components
- Commissioning and programming the robot for on-site testing
- Training the operators

Commissioning and training for a NAO humanoid robot at the Land Forces Academy in Sibiu.

- Study of specialized software programs
- Programming the robot

Design and execution of mechanical parts, commissioning and training for a Mitsubishi SCARA robot equipped with an artificial Cognex vision system at Transylvania University Brasov.

- Studying the mechanical configuration of the robot
- Studying robot programming software
- Studying the software's configuration for the artificial vision chamber
- Connecting and programming the artificial vision system
- Designing and monitoring the application's specifics in the production of mechanical components
- Commissioning and programming on-site test systems
- Training the operators

Commissioning and training for 2 NAO humanoid robots and 3 DrRobot – teaching robot – at Transylvania University of Brasov.

- Study of specialized software programs
- Programming robots
- On-site testing of the robots

Customers: Altur Slatina, Compa Sibiu, Calipso Voluntari, Procter&Gamble, Desicor Portugalia, Parmalat, Velocity Reșița, Astra Arad, BMT Aerospace, OMCO Mould, I.G. Watteuw, IATC, Lufkin GE Oil & Gas Ploiești, Metalica București, Hendrickson Sibiu, Oehler Mecanica Avrig, Piroux Industrie Pitești, RAAL Bistrița, Romradiatorare Brașov, Autoliv Brașov, Turbomecanica București, ELJ Automotive Titu, Bilstein Sibiu & others.

Period: 2006-2016

Purpose: Designing and simulating robotic cells for various industrial operations.