

CURRICULUM VITAE

Nicu ROMAN

Address: Democratiei Street 36,
Galati, Romania

Tel: +40722277700
E-mail: nroman@galfinband.ro

Date of birth: 27 August 1957
Status: Married

In the year 1977 I graduated the class of Metallurgical Highschool of Galati, specializing in Actuation and Automation. Than I followed the classes of Automation Faculty from the Polytechnic Institute of Bucharest, which I graduated in 1983 with the grade of 9 at the diploma exam.

After graduation I was assigned in production at Contactoare Buzau company where I was employed until January 1st, 1985 when I was transferred at the Automation Institute of Bucharest (I.P.A.), Galati Brach.

October 1995 I came to Galfinband S.A. Galati, where I work in the department of *research and development in the field of industrial process control*

Since graduating faculty I have followed two more post-university courses; after the first one, (in the year 1984) I was certified as an System Engineer for microcomputers and than, in 1989 a specialist in process calculation systems, multiprom series.

As an employee of I.P.A. Bucharest I obtained by exam the scientific researcher title in the year 1987, researcher – III-rd degree in 1989, and in the year 1991 main researcher II-nd degree.

Since 1987 I have been collaborating as an educational person associated with the automation department of the Shipping and Electrical Engineering of Lower Danube University of Galati.

In 1997 I was appointed as Scientific Manager of Galfinband S.A. where I coordonate the research, design and implementation activity of industrial automation applications.

Experience:

- Conventional and non-conventional techniques and technologies ;
- Information technologies for increase of effectiveness of industrial processes ;
- Adaptation of working methods to the computer-assisted control;
- Restructuring and modernization strategies and studies for the technological processes;
- Modern techniques and technologies for analysis, diagnosys and control;
- Intelligent systems for control of industrial processes.

Job tasks: Execute technical tasks in the design, development, testing, implementation, and documentation of process automation/control projects. Perform on-site startup and training activities.

Read and work from P&ID and electrical schematics.

Allen-Bradley PLCs operating and programming (developing).

HMI/SCADA configuration and programming.

Maintenance of the automation systems for company and customers.

Other activities:

Execute technical tasks in the design, development, implementation, and documentation of process automation/control projects and software projects.

Perform on-site startup and training activities. Perform project work within applicable standards, guidelines, and procedures. Perform project work within schedule and budget constraints. Provide proactive input and solutions to the engineering organization for continuous improvement of the organization.

Publications, participation to conferences :

1. Information processing system for the real-time guidance of the cooling process of the hot rolled steel strips – SIMSYS UNIVERSITY of Galati.
2. Automatic system of guidance and control of the steel strips rolling process in a quarto-reversible rolling mill – Brussels EUREKA '95.
3. Methods of numeric adjustment of the strips thickness with the optimisation of parameters and constant values specific to the cold rolling process – Brussels EUREKA '95 (**GOLD MEDAL**).

4. Automation system for the guidance of cold rolled steel strips with the integration of the manufacturing processes of cold rolling, thermal treatment, adjusting – Steel Strip '96 Opava Czech Republic.
5. Automatic system of diagnosis of the technologic installations from the manufacture process of the cold rolled steel strips – ROMSYS UNIVERSITY of Galati.
6. Automatic system of acquisition and processing of acoustic signals, in view of recognising the damages and the intelligent surveillance of some equipment in rolling mills – ROMSYS UNIVERSITY of Galati.

Research stages :

- ❑ 1983 – I graduated the Faculty of Automation from the Polytechnic Institute of Bucharest;
- ❑ 1983 – 1994 Scientific Researcher II-nd degree in the Research Dept. of Industrial Automation Institute IPA Bucharest;
- ❑ 1995 – Manager in the Research and Industrial Automation Division of Galfinband S.A. Galati;
- ❑ 1997 – Scientific Manager in the Research and Industrial Automation Division of Galfinband S.A. Galati;
- ❑ 2002 - candidate for a doctor's degree in automations

Additional training:

- Rockwell Automation - Products Training Vienna, Austria, December 2000 (ControlLogix, ControlNet, FP3000, RSLogix5000)
- Rockwell Automation – Automation University Prague, Czech Republic, May 2005 (RSView SE, RSLogix5000)

Skills: Industry experience:
Metallurgy

Professional skills:

- Distributed automation systems
- PLC Programming
- HMI/SCADA Configuration
- Visual Basic/VBA and C/C++ Programming
- Databases design

Product design:

Programmable Logic Controllers (PLCs):

Allen-Bradley: Micrologix1000, SLC5/03, SLC5/04, SLC5/05, ControlLogix, FlexI/O, Point I/O digital and analog cards, interface cards (HSCE, HSCE2)

Electronic Operator Interface (OIT) - Allen-Bradley (DTAM Micro, DL40, PanelView550, PanelView1400), Siemens (C7), Mitsubishi

Drives: - Reliance Electric: GV3000, FP3000; Allen-Bradley: 1336S; SEW; Siemens: - Micromaster

Industrial Networks:

Control Net, Device Net, Profibus, Remote IO, RS 232, DH 485, DH +, Ethernet

Software Development:

Ladder Logic (RSLogix 5, RSLogix 500, RSLogix 5000)

HMI/SCADA (RSView SE, RSView 32, PanelBuilder32)

C, C++

RSWire, RSNetworx

PC based acquisition cards: Axiom, Advantech

PC based applications:

SQL Server 2000

AutoCAD, Matlab

Msoffice (Excel, Word, Access, Power Point)

Operating systems:

Windows 95, 98, NT, 2000, XP

Languages:

English:Medium

French: Medium

Accomplished Projects:

- 1997: Automation system for an anticorrosive protected strips manufacturing line
 - Customer: Galfinband
 - Realized with Allen-Bradley SLC 5/03 Programmable Controller
 - controller program development (RSLogix500, ladder logic)
 - HMI development (RSView)
 - DeviceNet communication network over the controller, GV3000 drives and FlexIO
- 2000: Automation of a slitting line
 - Customer: Sidex, Galati, Romania
 - realized with Allen-Bradley SLC 5/05 Programmable Controller
 - controller program development (RSLogix500, ladder logic)
 - HMI development (RSView, Visual Basic)
 - Ethernet communication network over the controller and operator stations
 - Profibus communication network over the controller and FP3000 drives
 - PID control loops
- 2001: Automation of a hot rolling mill
 - Customer: Sidex, Galati, Romania
 - realized with Allen-Bradley ControlLogix Programmable Controller
 - controller program development (RSLogix5000, ladder logic)
 - HMI development (RSView, Visual Basic)
 - Dataliner DL40 displays program development
 - Ethernet communication network over the controller and operator stations
 - ControlNet communication network over the controller and FP3000 drives
 - RIO communication network over the controller and dataliners
 - DeviceNet communications network over the controller and 842D Encoders
 - PID control loops
- 2002: Automation of a combined line (slitting and cut to length)
 - Customer: Sidex, Galati, Romania
 - realized with Allen-Bradley ControlLogix Programmable Controller
 - controller program development (RSLogix5000, ladder logic)
 - HMI development (RSView, Visual Basic)
 - PanelView550 operator interface program development
 - Ethernet communication network over the controller and operator desks
 - ControlNet communication network over the controller, FP3000 drives and PanelView
 - PID control loop
- 2004-2005: Automation of Wire Feeder Machines
 - Customer: Mittal Steel, Galati, Romania
 - realized with Siemens S7-300 Programmable Controllers
 - controller program development (Step 7)
 - Ethernet communication network over the controller and HMI, Profibus communication networks
- 2005: Monitoring of technological parameters (level 2 automation)
 - Customer: Mittal Steel, Galati, Romania
 - realized on the SQL Server 2000 platform
 - Allen-Bradley and Siemens PLCs
 - program development (Visual Basic 6.0, RSview32, WinCC, RSLogix 5000, RSLogix 500)
 - Ethernet communication network between PLCs, HMI stations and Client Stations

Interests: Computer Programming & Design, Movies, Sports, Literature & Music