

Ionuț Dumitrașcu

Personal Details

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- Nationality: Romanian
- Marital Status: single



Objective

A position as Instrumentation & control specialist for petrochemical/refinery/oil & gas projects, responsible with the field instrumentation engineering and Control System design.

Experience

• February 2008 – present

Process Control & Instrumentation Engineer – **Clough ZFP** – Al-Khobar, Saudi Arabia

Project: *Saudi Aramco - HARAD Gas Plant Debottleneck*. Duties: develop specification and prepare material requisitions for systems (DCS/ESD, etc.), valves and field instruments (pressure, flow, level, temperature transmitters); review vendor's quotations and prepare technical bid evaluation; correspond with vendors on technical matters and ensure that action is taken where necessary; input to Piping and Instrument diagrams (P&ID's); develop logic diagrams, control narratives, cause & effect diagrams and instrument index; oversee the work of instrumentation designers (i.e. Layout drawings, Cable Routing, Interconnection wiring diagrams, Cable Schedule, Loop Diagrams, Hook-up, Connection Detail & Mounting Detail); prepare the material take-off, update and issue it on a regular basis. I have participated in HAZOP meetings and design reviews; technical interface with other disciplines; liaise and work proactively with all involved parties for the execution of allotted tasks. I provided mentoring and transferred knowledge, skills and experience to entry level engineers and designers.

• March 2007 – January 2008

Control & Instrumentation Engineer – **ENOIA S.A.** – Athens, Greece

Project: *Saudi Aramco – Nuayyim GOSP & Hawtah Stabilizer*. Duties: responsible for control system (DCS/ ESD/ CCS/ VMS) detailed design; provide instrumentation input to equipment specification; carry out technical bid evaluations for PCS, review supplier's design documents and drawings to ensure compliance with Saudi Aramco standards and end user's needs; ensure that design review comments are incorporated; provide input to P&IDs; prepare cable schedule, Control/Rack Room equipment layout and wiring plan; instrument database; liaise with other engineering groups and client as necessary but in particular with Mechanical Equipment, Process and Electrical groups in relation to instruments and controls associated with packages; liaise with the client's instrument engineer on technical matters concerning instrumentation; develop ESD/DCS/Fire&Gas logic diagrams, FF segment design and calculation, instrument loop diagrams & fieldbus segment diagrams. I attended design reviews, PDR, CDR, FAT and technical clarification meetings with the PCS vendor (Yokogawa).

• December 2003 – February 2007

Automation & Instrumentation Engineer - **Snamprogetti Romania SRL**

- August 2006 – Dec. 2006 assignment to **Yokogawa Engineering Asia Pte Ltd** – Singapore

Project: *Saudi Aramco – Hawiyah NGL Recovery Plant*. Duties: perform Pre-FAT, FAT and Integrated Factory Acceptance Tests for Process Control System; hardware inspection, Wiring check; I/O check and software application test on Triconex MP3008 ESD; Burner Management System sequencer test; complex control loop and configuration check on Yokogawa Centum 3000 DCS; communication link test with BMS, Mark VI (GE-Nuovo Pignone), CCS and VMS (Bently Nevada 3500); Foundation fieldbus and MCC-multilin communication test; approve the FAT tests and generate punch lists; assistance in closure of punch-list points.

- June 2005 – August 2006 seconded to **Snamprogetti SpA** – Milano & Fano, Italy

Project: *Saudi Aramco – Hawiyah NGL Recovery Plant*. Duties: leading a small group of engineers who prepared the ESD/DCS Logic Diagrams and Graphic Display Sketches, ensuring compliance with industry & client standards and best practice for safety and reliability; PCS vendor print check, package vendor documentation review: thermal oxidizer (for start-up sequencer), regeneration compressor (for anti-surge control), condensate pumps, and flare systems. Under the leadership of the principal instrument engineer I have maintained Control System Database (INtools) and, in joint effort with the process engineer, I developed the C&E Diagrams and DCS Control Loop Narratives.

- December 2003 – May 2005 **Snamprogetti Romania SRL** – Bucharest

Project: *ERG MED - Raffineria Priolo Gargallo - Italy*. Duties: prepare instrumentation plot plan, JB layout and main cables routing, control room cable-tray layout, interconnection wiring diagrams, simplified loop diagrams, process hook-up sketches for instruments, bill of material and cable schedule; **INtools** activities like Instrument Index, Signal schedules, Instruments Specification Sheets, Cabling schedule and routing; activities on the plant 3D model (**PDS-Intergraph**) – position junction boxes, cable trays and local control panels, check the location of inline devices.

Interconnection Wiring Diagrams, Pneumatical Connections Sketches, Instrument process hook-up, Instrumentation main cable routing and MTO for *Agip Petroli SpA – Raffineria di Taranto*. Bidding activities e.g. PCS I/O Count, Bill of Material, installation and site assistance costs, preliminary studies for cable routing and JB location for Pemex Petroleos Mexicanos – Minatitlan Refinery and GASCO - Ruwais 3rd NGL Train.

• **September 2003 – December 2003**

Junior Instrumentation Designer - I.P.I.P. SA - Ploiești

Duties: provide CAD drafting to update P&ID's and instrumentation drawings to an As-Build status; work under the direct supervision of a Senior Designer and provide basic design including layouts, wiring schematics and equipment installation details. Software package used: AutoCAD.

• **Feb. 2001 – March. 2003**

Software Designer - ASESOFIT – Ploiești

Duties: develop, test, user training for various software solutions: e.g. employee management system, inventory & purchasing, e-payroll, document management system. Software tools: Paradox, Oracle & SQL Server data base, C++ Builder, Visual FoxPro and MS Visual C++ programming.

Competences

- Process control and safety instrument systems (DCS/ESD), anti-surge and compressor control, vibration conditioning monitoring systems, telecommunication systems, field instrumentation and actuated valves, motor control equipment, packaged equipment interfaces, implementation of explosion proof techniques.
- Advanced control structures and algorithms, including feed-forward control (MVPC); modeling, simulation and optimization of processes and control techniques in the oil refining and petrochemical industry.
- Robots and flexible systems manufacturing, expert systems, fuzzy control, neural networks, data transmission.
- Hands-on experience with Yokogawa DCS, Triconex SIS, Shimaden, Honeywell and Foxboro controllers; GE Fanuc MiniOCS PLC - (Cscape); Allen-Bradley SLC500 PLC; Axiomtek AX5411 PCI acquisition board.

Training

Field instrumentation, measurement and control. Smartplant Instrumentation (INtools), PDS – 3D modelling EERaceway & Equipment, Quality control training.

Education

- 1998 – 2003 [University of Petroleum and Gas \(UPG\) - Ploiești](#)
Bachelor degree in **Automatic Control and Computer Science** (5 years study)
- 1994 – 1998 “Spiru Haret” High School – Ploiești, **majoring in general informatics**
Professional Qualification - **Analyst Programmer**

Languages	Speak Read Write (3 – fluent, 2-fair, 1-slight)			
English	-	3	3	3
Italian	-	3	3	3
French	-	2	3	2

PC Knowledge – computer literate

- Microsoft Office proficient (Word, Excel, PowerPoint, Access), Windows & Linux-Unix platforms.
- AutoCAD, Intergraph - Microstation & PDS (3D Modeling), CorelDraw, Adobe Photoshop
- Programming languages: C, C++ Builder, Fortran, Pascal, Delphi, FoxPro, Matlab(Simulink), LabView.
- PLC programming (Ladder Logic, FBD, Structured Text, Instruction List)
- Computer networks (Domain Controller, File/Print/Mail Servers, Routers, Switches, WAN, LAN, TCP/IP).

Aptitudes

- Zeal, self taught, fast learner, attention to details, able to think conceptually and identify alternative solutions
- Excellent analytical skills, able to work with large amounts of information. Technical oriented.
- Available for traveling and relocation. Clean driving license (since 1998).

Hobbies

- play tennis, ride the bicycle, swim, read
- play the guitar, computers, cars.