



CURRICULUM VITAE

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Personal data:

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LinkedIn_page:

https://www.linkedin.com/profile/view?id=337596057&trk=nav_responsive_tab_profile;

Date of birth: September 5, 1970, Galati, Romania

Gender: male

Civil status: Married, one child.

Work Experience in ArcelorMittal Galati:

- **November 2013 - present: Quality Product Development Engineer** - Product Development Team in Quality Department; Responsibilities: Open feasibilities of new products development from chemistry to the metallurgical route in different range of thickness to achieved mechanical properties from standards; transversal projects from Steel Melt Shop - Continuous Casting – Planning department to the Rolling Mills: Heavy Plate Mill; Hot Rolled Coils; Cold Rolled Coils and Hot Dip Galvanized Coils. Certified new products with International organizations: Lloyd Register, Det Norske Veritas, American Bureau Ships. Proposal of new products, copy engineering or reengineering of products in Product Development Steering Committee in Bucharest 4 times on year. Proposal of Master Plan of new products; forecasts of trend market in accordance with product capabilities.

- **January 2012 - November 2013 Change Leader** - Local Progress Academy department; Responsibilities: Implement on ArcelorMittal Galati of new methodology developed on Toyota and McKinsey principles on Central Progress Academy of ArcelorMittal in Luxembourg: Local Transformation, FACT (fast actions on continuous transformation), AVA (added values action), Project Management, from TPM to WCM pillars: Idea Generations, Improve Department Organizations,

All the methodology are correlated with problem solving tools: PDCA cycle starting with MIFA (material information and flow analysis), from active observations on shop floor to the analysis tools: 5 W and 2 H, Brainstorming, Issue tree and Value driven Tree, Why-Why, Ishikawa, Pareto to the OEE – overall equipment efficiency.

Transversal projects: described below on Projects section

- **September 2009 - December 2011 - Progress engineer** in Heavy Plate Mill department Duty and responsibilities: - Pilot of AGC project (*Automatic Gauge Control*); automation of technological process of rolling;

February - July 2009 Head of shift in Heavy Plate Mill department; Manager of 240 people on shift from process engineer to the foreman's and workers. Lead the rolling productions, reheating and rolling process, normalizing treatment process to finishing process to delivery of plates in accordance with daily production plan

- **August 2008 – January 2009 - Head of slab warehouse; Responsibilities:** Manager of 90 peoples from foreman to workers on all 3 shifts, received slabs in warehouse, Inventory of slabs and prepare rolling cycle for rolling process.,

- **1994-2008 Coke plant. – Technologist;** Responsibilities: Control of warehouse coal to the heats for the coke process on the shift

- **1990-1994 Sinter Plant – Technologist;** Responsibilities: Control of sintering process from synoptic control panel on the shift.

Projects:

- **Development of new naval steel grade High Strength Steel – grade A/D/E 40 and grade F32/F36/F40** according with DNV rules and certifications; thickness range 6-60 mm – in progress

- **Improving of ASTM A516 Grade60/65/70** pressure vessel steel grade - HIC test (hydrogen inducing cracking)

-- **Development of offshore steel grade: S355G10+N / S355G10+N: EN10225;** thickness range 6-60 mm – in progress

- **Development of offshore steel grade 42 and 50: API 2H-42N; API 2H-50N** according to API specifications 2H standard: thickness range 6-60 mm; in progress

- **Homologation of pressure vessel steel grade P460NL2 up to 30 mm thickness** with third part inspection society TUV - December 2015.

- **Optimizing matrix chemistry and heat treatment of pressure vessels steel P460NL1/NL2: thickness range 6 to 16 mm: EN10028/4 – cost reduction project – done January 2015**

- **Increase feasibility on thermomechanical rolling** on structural plates from 50 mm tot the 80 mm thickness from EN 10025 – 5 – 2005; added value project – done December 2014

- **Reengineering the chemistry and metallurgical route for A516M steel grade from ASTM & ASME up to 84 mm thickness** – done June 2014 – reducing cost project
- **Z35 plates** - Added value project, improve the Z35 mechanical characteristics up to 60 mm thickness on plates for shipbuilding with DNV certificate and structural grades EN 10025 standard – January – done March 2014 added value project – done;
- **Valorization & reallocation of plates prime available** – January – July 2013 – 6 months – create a business process - saving costs project around 130 k€;
- **Spare Parts Management** – July –December 2012 – 6 months - improve management of standards spare parts – create a min-max order
- **Fe balance on Primary area - Sinter Plant, Blast Furnace Plant and Steel Melt Shop** from January 2012 to June 2012 – 6 months – reducing costs project around 150 k€;
- **AGC- automatic gauge control on heavy plate mill** – supplier Siemens VAI – from January 2008 to December 2011 - implement automation from Level 1 to the Level 2 – Control Process Computerized with mathematical model. CAPEX project value 9M€

Technical skills:

- Expertise in new product development from steel chemistry to entire working flow of product: SMS-CC- rolling – lab test for mechanical characteristics \ Steel grades standards from: EN to ASTM and ASME within naval certification: LRS, DNV&GL, NKK, RINA;
- Expertise in hot rolling plates, normalizing heat treatment;
- Setup Level 2 of rolling model parameters,
- Global overview of business process from Sinter Plant – Blast Furnace Plant – Steel Melt Shop – Continuous Casting – Mill Plant:
- Expertise in ArcelorMittal Progress Academy methodology: Local Transformation; Idea Generation, FACT, Project Management; 5S \ PDCA with problem solving tools: FMEA; RCA; Pareto; Why-Why; SWOT; SPC, 5S
- SAP user
- Knowledge of PC use: Microsoft Office: Excel, Power Point; Word; MINITAB statistical tool

Managerial Skills:

- Results oriented: strategic thinking: management decision, active listening, leadership oriented: “...*be the change what you want to see in world...*”
- Quality oriented: “...*The quality of business is the customer satisfaction...*”
- Communication: Able to settle conflicts, socialization, persuasion, patience, ability to motivate others, teamwork, sense of collegiality;

Education:

- **2009 - present PhD student**, admitted to the Faculty of Metallurgy and Materials Science at the "Dunarea de Jos" University from Galati, Romania – 9, 40 noted. My PhD thesis will be aimed to improve rolling technologies for thick mild steel plate also to improve rolling technology for HSLA steels.
- **2008-2010 Post -university Master** of the Faculty of Metallurgy and Materials Engineering, University "Dunarea de Jos" Galati, specializing in Advanced Metallic Materials Science; *Master thesis postponed October 2014– with research of improving thickness uniformity and accuracy in rolling prediction model.*
- **2008 Master diploma** in Materials engineering: Diplomat Engineer.
- **1988 – Bachelor degree diploma** Industrial High School no. 8, Galati, Romania.

Languages:

English: Understanding\ Speaking \Writing: Proficiency level

French: Understanding\ Speaking \Writing: Intermediate level

Italian: Understanding\ Speaking \Writing: Beginning level

Romanian: Native

Courses / Trainings:

- **ACT 3 \ ACT2 \ ACT1 - Continuous acting for transformation - ARC 2015** program Arcelor Romania Growing – August 2013: Statistics Minitab tool; FMEA _ Failure Method Effect Analysis; \ **ARC2012** program – June 2012; SPC _ Statistics Process Control \ **ARC2009** program – Problem solving tools
- **Change Leader Intro Training** – Progress Academy Methodology; Fos-sur-Mer, France, March 2012
- **PCS7-Automation-Level 1 training** - Nuremberg, Germany - February 2011
- **AGC - automation gauge control of rolling mill** - Level 1 automation PCS7, Nuremberg, Germany \ **Level 2 automation** Erlangen, Germany in February 2011 \ Gijon, Spain in March 2009 \ Saint Chammond, France - January 2009
- **Training of Heavy Plate Making** - Luxembourg-March 2010
- **Oracle Database Admin 10g**, Bucharest - November 2009
- **British Academy of Business and Communication:** Business Communication, Business English and English grammar - July 2008

Additional information:

Publications on Annals of “ Dunărea de Jos” University of Galati, Faculty of Materials Science and Engineering, Domnească Street, 47, RO-800008, Galati, Romania:

- "**Industrial research in thicker heavy plates (70-80 mm) to define influence of Mo-Nb-Ti in Thermo-Mechanical Control Process in Arcelormittal Galati**" Authors



PhD students: Costel Durduc-Roibu* and Liviu Gurau*, "Dunărea de Jos" University of Galati, Faculty of Materials Science and Engineering, Domnească Street, 47, RO-800008, Galati, Romania. May 2015

- **"Research in industrial trials to improve Trough-thickness z35 properties of hot rolled heavy plates up to 60 mm thickness for structural steels"**; Authors: Costel Durduc-Roibu and Liviu Gurau, Dunărea de Jos" University of Galati, Faculty of Materials Science and Engineering, Domnească Street, 47, RO-800008, Galati, Romania; May 2014

- **"Thermomechanical rolling of heavy plate and the effect of intercritical hot rolling deformation on steel grades for welded pipes with lean chemistry"**, Authors: Costel Durduc-Roibu and Elena Drugescu, Dunărea de Jos" University of Galati, Faculty of Materials Science and Engineering, Domnească Street, 47, RO-800008, Galati, Romania; May 2012

- **"Research on the influence of thermomechanical treatment of high temperature on the mechanical properties of shape memory alloy CuAl13Ni4"** Authors: Costel Durduc-Roibu, Dunărea de Jos" University of Galati, Faculty of Materials Science and Engineering, Domnească Street, 47, RO-800008, Galati, Romania; May 2008

- **"Study of fragile breaking by determining the energy of impact bending shock – Charpy test"** Authors: Costel Durduc-Roibu, "Dunărea de Jos" University of Galati, Faculty of Materials Science and Engineering, Domnească Street, 47, RO-800008, Galati, Romania, May 2007

