**Cosmin Ioan Caprariu**

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**OBJECTIVE**

To establish a long-term career with a company that will challenge and nurture my creative and technical skills.

**EDUCATION**

**“Politehnica” University of Timisoara - Romania, Europe    10/1995 -06/2002**

**Department: Industrial, Civil and Hydro -Technical Construction Bachelor of Science in Power Plants & Power Distribution Engineering (five year degree)**

•    Ranked 2nd out of 100 students with high scores/grades

•    Automatically enrolled in the University’s PHD program for Engineering

•    Elected campus dormitory administrator of the largest dormitory (over 2000 students)

**Omniplex Electrical Trade Services - Schaumburg, IL**

•          Master Electrician Course (N.E.C. 2002)

**IPT`s Rotating Equipment Training - Des Plaines, IL**

•          Machinery Reliability and Condition Monitoring

**IPT`s Industrial Trades Training - Des Plaines, IL**

•          Power Transmission Systems

**IPT`s Electrical Training - Des Plaines, IL**

•          Distribution, Motors, Transformers, Controls & Automation

**COMPUTER QUALIFICATIONS**

•      AutoCAD & Mechanical Desktop

•      SolidEdge

•      Microsoft VISIO - Value Stream Mapping Software

•      Microsoft Office Professional Suite (Word, Excel, PowerPoint,

       Access)

•      Quick Basic

•      Unix

•      INVENTOR Tool Design Software

•    PLC Ladder Programming Software (Allen Bradley, Omron, Automation

    Direct, Siemens)

* VFD Installation & Programming (Allen Bradley, Avitar, Telemecanique, Fuji, GE)

    •      KUKA Robotics Programming Software

    •      MOTOMAN Robotics Programming Software

    •      FANUC Robotics Programming Software

* Telepro Controls (Level 1 & 2) for High Speed Rolling Mills
* Automax PLC & Drive Controls Systems (Hardware & Software)

**ADDITIONAL QUALIFICATIONS**

* Reliability Professional Classes (1.5 years program); scheduled to become certified in April of 2017
* Aleris Operating System (coach)

•    Modine Production Systems Mentor - Modine Manufacturing Co.

•    Controlled Atmosphere Brazing Advanced Engineering Training – SECO Ovens

•    Powder Paint Engineering Systems - Nordson & PPG

•    Continuous Improvement Group Leader - Sara Lee Corp.

•    Beverage Equipment Advanced Technologies - Sara Lee Corp.

•    Certified Project Manager - PM College, Project Management Institute

•    Electrical Power Systems - Sara Lee International

•    Toyota Production System/Lean Manufacturing - Cardone Industries Inc.

•    Continuous Improvement Champion - US CAN Company

•    National Electrical Code - Electrical Certification

•    6 SIGMA & Statistical Process Control - Motorola

•    Programming & Maintenance of KUKA Robots - KUKA Robotics College

•    Programming & Maintenance of FRONIUS Digital Power Supplies -Fronius Tech Center

•    Lean Training & Certification - Lean Enterprise

**ALERIS INTERNATIONAL Inc. - Lincolnshire, IL      09/2014 – present**

**(company was purchased by a Chinese Co.; uncertain future)**

*North America Rolling Products Division*

*Plant Engineering, Maintenance& Reliability Manager 09/2014-present*

*Plant Interim Production Manager 08/2015-12/2016*

* Successfully built a reliability team by hiring qualified engineers, maintenance supervisor for night shifts & production supervisor for day shifts
* Developed & implemented Maintenance Vision, Mission & Policy
* Developed maintenance KPI’s barrel/dashboard & reporting process
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* Developed & implemented process of successfully planning outages
* Developed & implemented process of reviewing & scoring outage plans
* Developed & implemented long term (3Y) Reliability Road Map for our operation to address any gaps in our reliability system (main reliability system blocks: leadership & organization, roles responsibilities & rewards, communication, system standards/document control, etc.)
* Instrumental in developing monthly reliability reporting to the president & CEO of Aleris & his executive team; report/communication process is currently used by all Aleris sites.
* Developed & implemented RCFA process at the technician & supervisor level for any maintenance & production issues.
* In 2016, the operation achieved ‘highest safety score/record’ in the history of the plant (currently @ 543day w/o a recordable); instrumental in creating a safe environment, leading by example, daily safety obs’s, engaging ppl.
* In 2015, the operation achieved ‘highest SOTIF’ results in the history of the plant (99.8%).
* In 2016, the operation achieved ‘lowest downtime at the bottleneck’ in the history of the plant (currently @ 0.82%YTD);
* In 2015, the operation achieved ‘lowest downtime at the cold mill’ in the history of the plant (currently @ 3.88%YTD);
* In 2015, the operation achieved ‘highest packed lbs’ in the history of the plant (just shy of 22Mlbs).
* Trained & coached electrical specialist in troubleshooting & testing of high power rectifiers used in our DC motor control systems
* Worked with the maintenance & engineering team to optimize existing PM’s & put more emphasis on our PdM program in our effort to make the transition from a reactive to a more predictive type operation.

**MODINE MANUFACTURING Co. - Ringwood, IL      06/2008 – 08/2014**

**(entire manufacturing operation moved to Mexico)**

*Automotive & Power Train Division - North America, Applied Thermal Transfer Products*

*Senior Manufacturing & Controls Plant Engineer 06/2008-09/2009*

*Plant Engineering, Facilities, Maintenance & Environmental Manager 09/2009-08/14*

•    Successfully controlled & managed all automated systems through-out the plant - controllers, robotics, motion & vision

•    Conceived & implemented several Preventive & Predictive Maintenance systems for fully automated production lines

•    MPS (Modine Production System) certified engineer - applied Lean tools to optimize manufacturing processes & trained plant personnel

•    Supported launching several new programs by providing technical expertise, equipment qualification & product design

•    Provided knowledge & “know-how” in advanced troubleshooting procedures to plant technical personnel (engineers, technicians/electricians & high level managers)

•    Designed & managed the implementation of several improvement projects which generated savings in labor, equipment uptime & increased production

•    Worked with vendors & customers to ensure understanding of product & components based on manufacturing needs & field application

•    Determined Target Process Conditions through Value Stream Scanning & evaluation of the Current Process Conditions

•    Led several scrap reduction Kaizens for the DS Condenser Line (RAM Trucks) with significant results: reduction from 50% of plant scrap to currently under 3%

•    Led Layout Change Kaizens to optimize process flow

•    Worked with the Materials Group & Production to develop parts Kanban system based on parts usage, safety stock & lead time

•    Sponsored several Standardized Work Kaizens

•    Developed KPI’s (yied, labor cost, process output, inventory levels) to monitor/measure process status

•    Led scrap reduction Kaizens which resulted in drop in scrap from~30% to ~5%

•    Led first pass yield improvement Kaizens which resulted in increase in FPY from  85% to 95%

•    Successfully launched several key programs for customers like Chrysler, Harley Davidson, John Deer following the industry std APQP process of building a new part

•    Restructured the plant maintenance department & upgraded it thru the use of current technology (laptops & centralized work order & parts management system)

•    Developed the maintenance & engineering technicians thru internal & external training programs

•    Developed new maintenance structure (4 levels) based on skills, knowledge, education, experience & job requirements (developed a model to calculate necessary skill sets/skilled personnel by knowing the type of work, amount of work & objectives established for engineering & maintenance KPI’s)

•    Developed maintenance WI’s, maintenance tasks & operational procedures.

•    Improved equipment uptime thru continuous improvement of the PM/PRED system (developed a culture of continuous improvement w/in the engineering & maintenance departments)

•    Developed spare parts inventory system for the tool crib & calculation models for stock levels, ROP’s & ROQ’s based on usage, lead-time & criticality of the part; reduced spare parts inventory room $2.5M to M1.5M

•    Managed the environmental management system in compliance with the state & federal regulations (IEPA, OSHA, FEPA, etc); maintained ISO9001 certification thru 3rd party external audits (LRQA)

•    Key player in new product & process design (advanced product application knowledge, product design reviews, advanced process design)

•    Key active member of the plant safety committee committed to the safety of the plant personnel 100% (drastically reduced recordable accidents by in-depth review of the safety concerns/incidents) & thru daily safety observations

•    Solid understating of all manufacturing processes, process capabilities, industry standards, etc.

•    Considered the “go-to-person & the expert” for all engineering related issues by production, quality, engineering & maintenance personnel (highly respected by all people in the plant, corporate office, customers & vendors)

•    Instrumental in taking the plant thru the financial crisis in 2008 & making the plant successful financially (went from being in the red every month to being profitable on a monthly base)

**SARA LEE CORPORATION - Downers Grove, IL      02/2007 - 04/18/2008**

*Service Operations Division - North America Foodservice Senior Manager, Service Engineering/Certified Continuous Improvement Group Leader*

**(entire senior staff was laid-off due to division being purchased by a competitor)**

•    Successfully managed a group of engineers & technicians in supporting all engineering related issues concerning advanced beverage equipment & related service processes

•    Assisted the Service Operations organization (210 Sara Lee service engineers & ~300 third party service engineers) with technical expertise

•    Reduced “New & Refurbished” equipment defective levels by 5% for new equipment & 3% for refurbished; generated savings = ~$130,000.00

•    Worked closely with our equipment vendors - domestic & international - to improve equipment quality through “in-depth” technical analysis (field & engineering laboratory)

•    Developed equipment related customer training to reduce service visits

•    Developed service processes (installation, repair, and maintenance) to drive standardization & built a lean foundation for Continuous Improvement

•    Led several Kaizen events which generated savings through-out US & internationally

•    Partnered with the international technical team in developing relevant KPIs & metrics to drive business improvements

•    Streamlined & enhanced data architecture to provide consistent, actionable information - reviewed & upgraded reporting capabilities by designing & implementing an enhanced “service coding system”

•    Created effective Standardized Work Procedures for the service engineers & field service managers - STW procedures included: processes, tools & parts

•    Created an effective equipment & product training strategy for the ~500 field service personnel - it included skill requirement & assessment processes

•    Implemented a Kanban system for parts used by the field engineers – the Kanban parts replenishment system was developed based on a calculation methodology that takes in consideration parts usage, cost, frequency of usage, safety stock & lead time (the parts BOM’s was part of a Lean 5’S program for 210 service vans & included the main parts warehouse in Washington, PA); the program’s savings = $500K

•    Assisted internal refurbishing center & also our refurb. vendors with technical expertise in developing manufacturing & remanufacturing processes based on Lean principles & methodologies

**CARDONE Industries Inc.  - Northbrook, IL       01/2005 - 01/2007**

*Rotating Electrical Division - Automotive Industry Lean Manufacturing Plant Engineer*

**(entire manufacturing operation moved to Texas & Mexico)**

•    Developed & Conceived NEW Lean Manufacturing Processes for the Rotating Electrical Division

•    Implemented 5’S & Visual Factory concepts.

•    Applied Engineering/Mathematical formulas & standard tool data to develop tool configuration.

•    Analyzed & planed BOL & document processes in Standard Work form.

•    Performed & Controlled Time Studies & MOST Analysis on the manufacturing processes & workflow.

•    Developed Value Stream Maps for our processes.

•    SPC & Six Sigma Training

•    Analyzed & planned factory space requirements & equipment layouts using CAD.

•    Created Equipment Profiles & Developed & Conceived Maintenance Program for all equipment.

•    KAIZEN facilitator in several other plants thru-out the country & Mexico.

•    Worked with Quality Dept. to assist in the development of PFMEA’s.

•    Safety Coordinator for the Rotating Electrical Division - implemented corrective actions for injuries/illnesses, including basic ergonomic assessment of workstations on both a pre & post injury/illness basis.

**USCAN/Olive Can Company - South Elgin, IL        01/2003 - 01/2005**

*Specialty Products Division - Packaging Industry Plant/Operations Engineer (01/2003 - 01/2004) Continuous Improvement/Lean Engineer (01/2004 - 01/2005)*

•    PLC programming for Production Equipment (Auto Seamers, Forming

     Presses, Automatic High Speed Conveyors, Welders, Auto Palletizers &

     Robotic Packaging Systems)

•    Conceived & implemented Preventive Maintenance Program for all production & facility equipment.

•    Led several Cost Reduction Projects (waste, utilities, energy, labor, etc.) for the local plant & expanded them thru-out the corporation.

•    Trained Operators in Lean manufacturing Principles & led Kaizen events.

•    Received Continuous Improvement & Lean training.

**MOTOROLA Inc. - Schaumburg, IL      09/1999-12/2000; 07/2002 - 01/2003**

*Commercial, Government and Industrial Solutions Sector Division Production Support Technician/Process Engineering Technician*

•      Determined new product features and capabilities

•      Analyzed impact of new technologies

•  Conceived & Implemented Preventive Maintenance process of laser test fixtures and established new repair techniques/procedures.

•      Production Support Technician (maintained test equipment, lasers, conveyors, software, test fixtures, scanners, packaging systems, electrical vacuum machines)

•    Performed & Controlled Time Studies & MOST Analysis on the manufacturing processes & workflow.

•    Developed Value Stream Maps for 2 way radios assembly & test processes.

•      Analyzed & planned factory space requirements & equipment layouts using CAD Software.

**TABLA CONSTRUCTION Inc. - Des Plaines, IL      03/1999 - 09/1999**

*Industrial Buildings Management Division Team Supervisor*

•      CAD Drafting of Structural & Utility Systems

•      Electrical Engineer

**HYDRO CONSTRUCTION - Romania, Europe       10/1997 - 10/1998**

*Power Distribution Division*

*Electrical Engineer*

•      Team leader

•      Design and implementation of electrical controls panels for hydro-electric dam

**CONSTRUCTIM - Romania, Europe       07/1996 - 07/1997**

*Internship*

•       AutoCAD layouts

•       Material and Structural computations

•       Infrastructure Engineering

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