

# Jason O. Moral

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Available to Relocate Nationwide

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## Materials Engineer & Corrosion Specialist

- Various projects in complex engineering materials, corrosion and pipeline integrity
- Specialized in mechanical and biological corrosion and corrosion chemistry, including cathodic protection techniques such as sacrificial anodes, impressed current systems, material selection, coatings and inhibitors
- Experience with many steel alloys, machining processes, welding and pipeline operations including installations and maintenance
- Proficient in field surveys, material compatibility analysis and destructive testing methods
- Expert in manufacturing processes supported by work history and industrial engineering education background

### Key Competencies

- ✓ Hands-on approach
- ✓ Quick learner
- ✓ Complex thinking
- ✓ Creative and innovative
- ✓ Resourceful
- ✓ Engineering software systems
- ✓ Technical presentations
- ✓ Inventory management
- ✓ Excellent communication skills
- ✓ Transferrable skills
- ✓ Public speaking

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## Work Experience

### Corrosion Engineer, Corrosion Solutions Group, LA Tech University (Feb 2006 – Mar 2009)

#### *Responsibilities:*

- Designing, installing, monitoring and maintaining external corrosion systems on project basis
- Monitoring and surveying internal or external corrosion of pipelines or facilities
- Identifying and monitoring industrial standards in projects; in accordance with NACE International standards, DOT Part 192 and 195 regulations, API Corrosion standards, and ASTM G, D and F standards for evaluations.
- Identifying project parameters, establishing timelines and prioritizing work assignments
- Researching and analyzing design proposals
- Performing optimizations, troubleshooting and feasibility studies
- Selecting materials and performing compatibility analysis
- Performing necessary field and material surveys; including RSTRENGTH analysis, ECDA surveys, internal sampling, chemical injections, annual pipe-to-soil surveys, batching, and AC or DC gradient surveys

#### *Accomplishments:*

- Designed and fabricated a hydraulic stress testing unit for stress and fatigue induced corrosion tests
- Established two non-destructive testing methods for evaluating internal corrosion and pitting
- Developed a corrosion protection method for API pipelines in high-chloride environments
- Three published papers regarding corrosion mechanics and material fatigue

### General Manager, PC Express (Jan 2006 – Mar 2009)

#### *Responsibilities:*

- Sales and customer relations
- Establishing pricing guidelines
- Monitoring on-site installation and maintenance crews
- Developing purchasing standards and store-wide cost analysis

***Accomplishments:***

- Increased net worth from \$25K to \$150K in three years
- Increased customer satisfaction level from 70% to 95% in 2 years
- Monthly revenue increased from \$5K to \$25K in 3 years
- Created a team-work environment, focusing on customer satisfaction and technical expertise
- Founded partnership agreements with Contingent Maintenance & Installations Services for north LA area; IBM Solutions Partner for mid-north LA area for cash register installations
- Received Cambridge Who-Is-Who Future Executives award in 2008 for north Louisiana

**Manufacturing Engineer, ECE Zipper (Sep 2002 – Apr 2005)**

***Responsibilities:***

- Process improvement
- Establishing production schedules and prioritizing production orders
- Developing manufacturing guidelines in metal and PVC production
- Identifying and monitoring ISO 9002 industrial standards in manufacturing processes
- Developing guidelines and material standards for purchasing
- Consulting other departments and participating inter-departmental projects
- Representing the company in exhibitions and fairs

***Accomplishments:***

- Earned recognition in textile industry and manufacturing techniques for zipper production
- Started as a process engineer concurrent with undergraduate studies, quickly promoted to manufacturing engineer
- Developed a process improvement project which doubled the PVC manufacturing capacity, and was selected as the best project of the year in 2004
- Manufactured and patented the first non-porous zipper in 2003 as a protection against chemical agents
- Participated in many ISO 9002 series trainings, represented the company in many industrial fairs in various countries including China, Taiwan and Singapore
- Learned hands-on experience in machine-shop processes including lathe operations, drilling, grinding and polishing

**Control Systems Engineering, Internship, SIEMENS (Apr 2004 – Sep 2004)**

***Responsibilities:***

- Designing and programming PLCs during the development of Siemens S7-300 and S7-500 series
- Establishing input-output charts
- Designing a cascade control system

***Accomplishments:***

- The only intern who successfully completed the project before the deadline and under budget

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**Proficient Software**

Solidworks 2008 (Master)

Pro/Engineer 3.0 (Intermediate)

Beasy Corrosion 9 Model (Intermediate)

MatLAB 2009a (Master)

Siemens S7 SCL (Master)

Siemens SCADA 2007 (Intermediate)

Datasoft Manuf 2007 (Intermediate)

MiniTAB 2008 (Master)

MS Project Pro 2007 (Master)

MS Excel 2007 (Master)

MS Word 2007 (Master)

MS PowerPoint 2007 (Master)

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## Education

### LA Tech University

**MSc in Industrial Engineering**, March 2007

Advisor: Prof. Dr. Ker, Jun-Ing of Altadox, China, Lean Manufacturing Consultant

### Yeditepe University

**BSc in Mechanical Engineering**, Minor, GPA: 3.50, May 2005

Advisor: Prof. Dr. Sisbot, Sedat of ABB Generators & Control Panels, Executive Manager

### Yeditepe University

**BSc in Production Systems Engineering**, Major, GPA: 3.50, May 2005

Advisor: Prof. Dr. Demirhan, Melek B. of Systems Engineering Department, Program Chair

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## Certifications

FESTO PLC Control Systems

FESTO Pneumatic Systems

FESTO Electro-Pneumatic Systems Design

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## Activities & Organizations

National Assoc. of Corrosion Engineers, Member (2008)

LA Engineering & Science Assoc., Member (2006)

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## Awards & Honors

Cambridge Who-Is-Who Future Executives (2008)

LA Bulldog Scholarship (2005-2009)