

Curriculum Vitae

Mohammad (Mehrab) Nosratbakhsh

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Profile

ISA-certified professional manufacturing and logistics systems engineer, analyst, and instructor, with demonstrated experience in integrated manufacturing systems analysis, design, verification, implementation, deployment (in automotive and steel industries), and maintenance. Having a range of responsibilities from systems analysis and design engineer to project manager, with in-depth knowledge in manufacturing execution, production planning, quality control, and inventory management, proficient in using the related software.

Key Skills

Team-oriented individual with the ability to lead a team or work as a member of a team with excellent interpersonal and communication skills, capable of cooperating with people at all levels. Self-motivated and pragmatic motivating others, committed to agreed targets and capable of working under pressure with a proven ability to deliver results on time. Experienced in Scrum and RUP frameworks. Looking for new challenges.

Professional Certificates

ANSI/ISA-95 Certified Instructor Award

ISA France, 2021

ANSI/ISA-95 (Enterprise-Control System Integration)

ISA Europe, Eindhoven University of Technology, the Netherlands, 2016

HSE (Health, Safety & Environment)

FANAP Co., 2016

Business Process Modelling with BPMN 2.0

FANAP Co., 2015

ISO/IEC 27001 (Information Security Management System), Functions & Requirements

Automotive Industry Research & Innovation Centre (SAIPA), 2013

ISO 9001 (Quality Management System), Functions & Requirements

Automotive Industry Research & Innovation Centre (SAIPA), 2012

Professional Expertise and Interests

Manufacturing Execution System (MES)

Enterprise Resource Planning (ERP)

Product Life-Cycle Management (PLM)

Computer-Integrated Manufacturing (CIM)

Professional Experience

2019- Present, FANAP Co., Iran

Director of ISA Standards Certification Training Courses and System-Compliance Audits

Achievements: Collaborating with ISA France and Sharif University of Technology, the 6-day International ERP/MES Workshop, covering the 16-hour ANSI/ISA-95 official certification training course, was successfully accomplished in August 2021. Similar workshops covering ANSI/ISA-88 and ANSI/ISA-99 are being planned for January 2022.

My responsibilities include:

- ❖ Administer ISA-88, ISA-95, and ISA-99 standards certification training courses
- ❖ Teach ISA-88 and ISA-95 standards certification training courses
- ❖ Audit the corresponding features of FANAP ERP with the aspects of ISA-88 and ISA-95 standards
- ❖ Suggest enhancements for FANAP ERP regarding aspects of ISA-88 and ISA-95 standards

2015-2019, FANAP Co. ERP Project, Iran

Head of Manufacturing Management, Manufacturing Execution (MES), and Quality Control Systems Team
Achievements: Within the ERP project, the Manufacturing Management, Manufacturing Execution (MES), and Quality Control systems were analysed, designed, developed and verified from A to Z, and were successfully implemented and deployed in a steelmaking enterprise in Iran, and are currently operational. All the phases were approved by POSCO ICT consultants as project supervisors.

My responsibilities included:

- ❖ Manage the entire life-cycle of manufacturing management, manufacturing execution (MES), and quality control systems of FANAP ERP solution, including system analysis, design, development, implementation, deployment, and maintenance
- ❖ Supervise and implement the integration of manufacturing management, manufacturing execution (MES), and quality control systems within ERP
- ❖ Directly supervise producing analysis documents of manufacturing management, manufacturing execution (MES), and quality control systems of FANAP ERP solution, comprising business process diagrams (BPMN 2.0), business process definitions, and UI prototypes
- ❖ Train, mentor and supervise system analysis and deployment engineers
- ❖ Plan system development process within scrum sprints, supervise clarification of analysis documents for developers, and verify the system after being developed
- ❖ Manage client relations and services including system approval, system implementation and training, new requirement identification, and bug fixes
- ❖ Leverage resources among the project phases, identify and develop corrective action plans

Summer & Fall 2014, SAIPA Investment Group & Namco (Mega Motor), Iran

ERP Consultant

My responsibilities included:

- ❖ Advise on system requirements identification of company
- ❖ Advise on ERP solution selection criteria

2013-2014, Carane Resource Planning Systems, Iran

System Analysis and Design Specialist (Manufacturing and Logistics Systems)

My responsibilities included:

- ❖ Control the life-cycle of manufacturing management, manufacturing execution (MES), inventory management, and quality control systems of Carane ERP solution, including system analysis, design, development, implementation, deployment, and maintenance
- ❖ Produce analysis documents of manufacturing management, manufacturing execution (MES), inventory management, and quality control systems of Carane ERP solution, comprising business process diagrams (BPMN 2.0), business process definitions, and UI prototypes
- ❖ Clarify analysis documents for developers, test and verify the system after being developed
- ❖ Provide client services including system implementation and training, new requirement identification, and bug fixes

2012-2013, Automotive Industry Research & Innovation Centre (AIRIC), SAIPA, Iran

PLM Analysis Project Manager

My responsibilities included:

- ❖ Provide SAIPA Product Development System process map using BPMN 2.0
- ❖ Identify PLM and management information system requirements of company
- ❖ Train, mentor and supervise analysis team engineers

Fall 2011, Ta'min Medical Holding Co., Iran

Project Lead; Feasibility study of manufacturing PG in Iran

Spring & Summer 2010, Technosoft Ariyan Co., Iran

Project Lead; Analysis and customization of the manufacturing system of ERP for automotive industry

Fall 2009 & Winter 2010, Bahman Motor Co.

Project Lead; Analysis, design, and implementation of the manufacturing MIS

Summer 2009, Sharif University of Technology

Seminar: Lean Production in Iranian automotive-manufacturing companies

Supervisor: Prof. Farhad Kianfar

2003-2004 & 2006-2007, Aras Dezh Construction Co.

Construction Project Manager

Education

2011, **MSc, Industrial Engineering**, Sharif University of Technology, Tehran, Iran

- ❖ MSc Thesis: “Expert Information System for Computer-Aided Process Planning with an Integrated Data Structure based upon the STEP Standard”

Supervisor: Prof. M. Houshmand

2003, **BA, English Translation**, Allameh Tabataba'i University, Tehran, Iran

1997, **Diploma, Physics & Mathematics**, Azadegan High School, Gorgan, Iran

Journal Papers

Submitting, M. Nosratbakhsh, M. Houshmand, O. Fatahi Valilai; “Expert Information System for Computer-Aided Process Planning based upon the STEP standard Integrated Data Structure”, International Journal of Computer-Integrated Manufacturing (**ISI**)

Submitting, M. Nosratbakhsh, A. Mahmoudi, V. Hajipour; “A novel Built-In Manufacturing Execution System (MES) Integrated into Enterprise Solution, Based upon ANSI/ISA-95 Standard: A Large-Scale Case Study”, International Journal of Advanced Manufacturing Technology (**ISI**)

Conference Papers

2011, A. Haji, A. G. Zare, **M. Nosratbakhsh**; “Optimum Ordering Policy for Vendor in 2-Echelon Inventory System with Discrete Demand”, IESM, Metz, France

Computer Skills

Modelling Language: UML, BPMN

Modelling Software: Rational Rose, GUI Design

Programming Language: PL SQL, Step5 (Siemens PLC programming)

Solid Modelling: CATIA

Project Control: Primavera

MS Office: PowerPoint, Visio, Excel, Access, Project, Word

Language

Persian: native

English: Proficient (Academic IELTS Band Score of 8)

Part-Time Instructor of IELTS, TOEFL, and Advanced General English courses (1996-2007)

Interests, Hobbies & Honours

Non-profit charity activities

Electric Guitar & Vocals

Literature

Basketball

- ❖ Member of University Basketball Team

- ❖ First Prize Winner in Schools Basketball Championship (Gorgan, 1993)

Amateur Skill in Football, Swimming, Tennis, and Boxing