

## Curriculum Vita

### Personal Record

1. **Name:** Ramezan Ali Mahdavinejad

### Education Record

1968—1974 High School (Majors Mathematics)

1974—1979 Mechanical Engineering (B.S. Degree)/*Engineering Faculty, Tehran University*

1989—1991 Mechanical Engineering (M.S. Degree)/*Engineering Faculty, Tehran University*

1993—1998 Mechanical Engineering (PhD)/*Engineering Faculty, Tarbiat Modarres University*

### Professional Skills Record

- Command with Computer Programs Such as:
  - Windows Operation System & Internet
  - Microsoft Office Programs Such as Word,.....
- Familiar with English Language Especially in Reading and Writing
- Basic (Manufacturing) & Process Design Ability for Industrial and Manufacturing Companies
- Very Good Familiar with Conventional and Non-traditional Machining Methods

### Some Training Record

- CNC Machining Systems
- Pneumatic Systems
- DFMA (Design for Manufacturing and assembly)

### Employment Record

1980—1993 Technical and educational Training Center

1998— 2004 School of Mechanical Dept., Engineering Faculty, Tehran University

### Part-time Jobs

- Marine Structures Manage (Shilat of Iran)
- R & D Consultant of Mazda Co. in Iran
- R & D Academic Member and Consultant of Manager Director (Avangan Co.)
- Technical Consultant of Oil Company (Kala Naft Co.)

## Academic Works

### 1. Teaching:

- Non-conventional Machining Processes
- Control and Testing of Machine Tools
- Design of Machine Tools

### 2. Researching Projects:

- Investigation of Self Excited Vibration in Bed of a Lathe
- Modeling & Design of Special Electrode Tool for Electrochemical Machining Process
- Design & Modeling of an Ultra-Sonic head unit to cutting composite materials
- Design and Manufacturing of an stabilizer unit in ED machining of carbide materials

### 3. Publications:

#### · Papers:

- Analysis of EDM Process When Machining Silicon Carbide** (Journal of Engineering Faculty, Tehran University)
- **Analysis of EDM Process When Machining Tungsten Carbide** (Journal of Engineering Faculty, Tehran University)
- **Job-Shop Scheduling with Ant Colony Algorithm Approach** (Journal of Engineering Faculty, Mazandaran University)
- **Tailstock's vibration analyzes of a Turning machine and determination of its vibration modes**  
(Journal of Engineering Faculty, Mazandaran University)
- Heat Transfer Analysis of EDM Process on Silicon Carbide** (8<sup>th</sup> International Heat Transfer Conference, 2004, Portugal)
- A New Solution on CAD/CAM Integration** (5<sup>th</sup> International Conference on Integrated Design and Manufacturing in Mechanical Engineering, Bath University, England)
- Heat Transfer Analysis of EDM Process on Silicon Carbide** (International Journal of Fluid Flow, England)
- Analysis of Micro Electrochemical Machining Process** (12<sup>th</sup> International Iranian Society of Mechanical Engineering Conference, 2004, Tarbiat Modarres University, Iran)
- Analysis in Power Increasing of Motor Production** (12<sup>th</sup> International Iranian Society of Mechanical Engineering Conference, 2004, Tarbiat Modarres University, Iran)
- Jointing Production Automation** (12<sup>th</sup> International Iranian Society of Mechanical Engineering Conference, 2004, Tarbiat Modarres University, Iran)
- Dynamic Analysis of Self-Excited Vibration in Turning via Modal Testing** (12<sup>th</sup> International Iranian Society of Mechanical Engineering Conference, 2004, Tarbiat Modarres University, Iran)
- Multi-Drilling Spindle, Design and Production** (11<sup>th</sup> International Iranian Society of Mechanical Engineering Conference, 2003, Ferdousi University, Iran)
- **Job-Shop Scheduling with Ant Colony Algorithm Approach** (11<sup>th</sup> International Iranian Society of Mechanical Engineering Conference, 2003, Ferdousi University, Iran)
- Combination of EDM and Ultra-sonic Machining** (5<sup>th</sup> International Iranian Society of Manufacturing Engineering Conference, 2002, Amirkabir University, Iran)
- **Mechanical & Thermal Stresses in Turning Machines** (Journal of Engineering Faculty,

Tehran University, 2008)

- **The behaviour of REFEL SiC under electro-discharge machining** (Journal of Engineering Manufacture, Part B, 2006 England)
- **Barrel Chamber Polishing, Using Electrochemical Theories** (Journal of Key Engineering Materials, 2008, Switzerland)
- **Prediction of cannon barrel life** (Journal of Achievements in Materials and Manufacturing Engineering, 2008, Poland)
- **Jig Grinding, an Effective Method in Ball Lock Punches Production** (Journal of Advanced Materials Research, 2008, Switzerland)
- **On the application of electrochemical machining for inner surface polishing of gun barrel chamber** (Journal of Materials Processing Technology, 2008, Ireland)
- **ECM RIFLING TOOL DESIGN AND MANUFACTURING** (Iranian Journal of Science and Technology, 2008, Iran)
- **Conduction as a major mode in ED machining instability of REFEL SiC** (15<sup>th</sup> International Conference on Advanced Manufacturing Process Technology AMPT, 2006, USA)
- **Micro Electro discharge Machining Capability** (15<sup>th</sup> International Conference on Advanced Manufacturing Process Technology AMPT, 2006, USA)
- **Surface Modification of TiN/Si<sub>3</sub>N<sub>4</sub> ED Machining via Ultrasonic Machining and Abrasive Blasting Processes** (15<sup>th</sup> International Conference on Advanced Manufacturing Process Technology AMPT, 2006, USA)
- **Finite element analysis of air gap thickness effect in electro slag remelting process** (3<sup>rd</sup> International Conference on Thermal Process Modeling and Simulation ICTPMS,06, Hungry )
- **Thermal and Mechanical Stress Comparison in Turning Machines spindle** (3<sup>rd</sup> International Conference on Thermal Process Modeling and Simulation ICTPMS06, Hungry)
- **Si<sub>3</sub>N<sub>4</sub> Polishing Process** (6<sup>th</sup> International Conference on Research and Development in Manufacturing Industry RaDMI06, Montenegro)
- **ED Machining of TiN-Silicon Nitride Coated** (6<sup>th</sup> International Conference on Research and Development in Manufacturing Industry RaDMI06, Montenegro)
- **LIGA Technology and its Applications** (1<sup>st</sup> International Conference on Quality Management Engineering ICQME06, Montenegro)
- **Job shop Scheduling Problem-Single Processor** (1<sup>st</sup> International Conference on Quality Management Engineering ICQME06, Montenegro)
- **Arcing, a Major Mode on the Electro Discharge Machining of WC-Co** (International Conference on Manufacturing Automation ICMA07, Singapore)
- **Design and Manufacturing of a Rotational Single Cutting Edge System and its Comparison with Conventional One** (International Conference on Manufacturing Automation ICMA07, Singapore)
- **Mathematically Modeling Optimization of SiC Output Machining Parameters** (2<sup>nd</sup> International Conference on Quality Management Engineering ICQME07, Montenegro)
- **Inner Surface Polishing, Using Fluidized Beds Abrasive Jet Machining** (2<sup>nd</sup> International Conference on Quality Management Engineering ICQME07, Montenegro)
- **EDM/USM COMBINATION, PART ۵-MACHINING OF TITANIUM ALLOY** (7<sup>th</sup> International Conference on Research and Development in Manufacturing Industry RaDMI07, Serbia)
- **EDM/USM COMBINATION, PART ۳-MACHINING IN GAS** (7<sup>th</sup> International Conference on Research and Development in Manufacturing Industry RaDMI07, Serbia)

- **Design and Modeling of ECM Rifling Tool** (7<sup>th</sup> WSEAS International Conference on Simulation, Modeling and Optimization, SMO7, China)
- **Optimization of Heat Loss as a Major Mode in CNC Machines** (7<sup>th</sup> WSEAS International Conference on Simulation, Modeling and Optimization, SMO7, China)
- **Fatigue Study on the Cracks of a Cannon** (16<sup>th</sup> International Conference on Achievement in Mechanical and Materials Engineering, AMME08, Poland)
- **EDM Process Optimization via predicting a Controller Model** (16<sup>th</sup> International Conference on Achievement in Mechanical and Materials Engineering, AMME08, Poland)
- **Machining of Composite Materials** (International Conference on Advances in Production Development and Reliability, PDR08, China)
- **Surface Modification of TIN/Si3N4 ED Machined via Ultra sonic Machining and Abrasive Blasting** (International Conference on Advances in Production Development and Reliability, PDR08, China)
- **Simulation of Abrasive Jet Machining Process** (International Conference on Advances in Production Development and Reliability, PDR08, China)
- **Books:**
  - Control and Testing of Machine Tools
  - Nontraditional Manufacturing and Machining Process (in Proceeding)

### Academic Membrane

- The Iranian Society of Mechanical Engineers
- The Iranian Society of Mechanical manufacturing Engineers