

Curriculum Vitae

Full Name: Tahseen Fadhil Abass Alani
Date of Birth: 28.12.1960
Nationality: Iraqi
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Qualifications:

B.Sc. (1982): Production Engineering, Dept. of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq
M.Sc. (1989): Industrial Robotics, Dept. of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq
PhD.. (1999): Flexible Automation for Production Engineering, Dept. of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq

Career History:

2003- Date: Assist. Prof. at the Dept. of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq. Responsibilities include teaching, syllabus planning, lab and research. Currently, supervising undergraduates and postgraduate students in the following fields:
1. Undergraduates: Fixed/Flexible Automation Theory and Practice
2. Master: CAD/CAM Principles and Industrial Robotics
3. PhD: Flexible Manufacturing Systems
Other tasks: Head of Die research unit .Member of planning committee for improving undergraduate teaching programs in the department.

1999-2003: Head of Tooling Section, Alqadisyah Company, Ministry of Heavy Industry, Babylon, Iraq. Main responsibilities are management, planning and implementation of industrial tools manufacturing and NC/CNC programming. Member of four committees for defining sequence of operation for manufacturing of drilling jigs, milling fixture, blanking dies and cutting tools.

1989-94: Head of Tooling Section, (Same as above).

1982-87: Production Engineer, Research Centre, Ministry of Heavy Industry, Iraq. Specialised in operation sequence and fixture design. Tasks include: part machining, quality control, interface control, tooling for mechanical applications. Also involved in machine programming using G- and M-code.

Research Projects:

1. Design and manufacturing of mechanical manipulator with end effector, University of Technology, Baghdad, 1989
2. Evaluation and analysis of parameters affecting deep hole drilling (Gun Drill), University of Technology, Baghdad, 2005

3. Improving design and manufacturing of progressive dies, University of Technology, Baghdad, to be completed end 2007.
4. 3D surface generation algorithm using lagrange basis function in CAD/CAM application. University of Technology, Baghdad, 2008
5. Automatic tool path generation for parametric surfaces in terms of Bezier patches University of Technology, Baghdad, 2009
6. Development of Algorithms to Represent Intermediate Layers for Machining Sculptured Surfaces
7. Surface Fitting and Representation By Using 2D Least Squares Method in CAD Applications
8. Statistical and Visual Analysis of Error In Interpolating Sculptured Surfaces
9. Dies Failure Under Effect Of Multiple stress Concentrators.

Technical and Academic Skills:

1. Production engineering and CNC programming
2. Fixed/Flexible Automation and mechanization
3. Computer Aided Design/Manufacturing (CAD/CAM)
4. Practical experience in Industrial Robotics
5. Lecturing and lab supervision for undergraduate students
6. Planning of educational programs for university level
7. Supervising MSc and PhD students in manufacturing engineering: so far, supervised two PhD students and 12 MSc students

Publications:

1. Numerous internal technical papers and reports following research and implementation of short- to medium-term projects
2. Co-authoring a book entitled: "System Design and Manufacturing" which has been approved by the department in 2007, on going.

Personal Interests:

Reading history books, travel and football

References:

Provided on request