

B.M.RANIL U. BANNEYAKE

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SUMMARY OF QUALIFICATIONS

- Educational Background: Mechanical Design, FEM, Manufacturing and Production planning
- Technical Skills: CAD/CAM software, Ansys, MATLAB, CNC machining and workshop experience
- Indirect Technical: control system Design, IT, Trainings and experience (research and teaching)
- Other: Costing and accounting knowledge, Team work, flexibility and diversified exposure.

PROFESSIONAL OBJECTIVE

Seeking a position that will give me an opportunity to use Mechanical Engineering knowledge in design, analysis and manufacturing of products while being exposed to other operational areas of the organization

EDUCATIONAL QUALIFICATIONS

- **M.Sc. in Mechanical Engineering (Systems & Control)** **GPA 3.875**
Texas A&M University, CS, TX **Graduation Date: May 2008**
 - Related Coursework: FEM, Engineering Dynamics, Control System Design and Mechatronics
- **B.Sc. Eng (*First Class Honors*) in Production Engineering** **Equivalent GPA 3.7**
University of Peradeniya, Peradeniya, Sri Lanka **2005**
 - Related Coursework: Production Engineering Technology, Mechanics of Machines, Ergonomics, Electrical Power and Machines
- **BIT (External) – Pending Results** **GPA 3.05**
University of Colombo School of Computing, Sri Lanka **2005 (Final Year)**
- **CIMA Professional Certificate in Business Accounting**
Chartered Institute of Management Accountants, UK **2002**

RESEARCH PROJECT

- Fabrication of a micro-fluidic device for Lipid Bi-layer formation.

GRADUATE PROJECTS

- Design and Implementation of a mobile robot with obstacle avoidance that can go towards the direction of higher light intensity, using PIC 16F877 microprocessor programmed in c.
- Dynamic analysis and modelling of an articulated robot arm using MATLAB®.
- Controller design for an unstable NASA Langley Hypersonic Aircraft Model to achieve stability and performance specifications, using Multivariable design tools in MATLAB®.

RELEVANT WORK EXPERIENCE

- Loadstar Training Centre.
Trainee Engineer - Part time (March 2005 – March 2006)
 - Participated in brain storming sessions leading to product designs including a pressing machine
 - Prepared a general work plan with a layout plan for the workshop

TEACHING EXPERIENCE

- Department of Production Engineering, Faculty of Engineering, University of Peradeniya.
Temporary Assistant Lecturer **Sept. 2005 – Aug. 2006**
 - Prepared Lecture Notes and Conducted Lectures on Production Technology subjects such as Metal Cutting, Metrology and Welding.
 - Coordinated companies participating in Industrial Day 2005 and managed their booths.
 - Scheduled laboratory classes in the department, acting as the **Instructors in Charge** for 3rd Year.

Temporary Instructor**Mar. 2005 – Sept. 2005**

- Prepared instruction sheets and conducted laboratory classes CNC Turning Centre such as Dynamic Properties of Tools and CNC Turning Centre.
- Participated in performing jobs on CNC Milling and Wire cut EDM machines

GRADUATE RESEARCH ASSISTANT**June. 2007 – Present**

- Department of Mechanical Engineering, Dwight Look College of Engineering, Texas A&M University.
 - Work on fabrication of a micro-fluidic device for lipid bi-layer synthesis.
 - Perform Photolithography, Metal deposition in metal evaporation chamber and Glass etching

TECHINICAL SKILLS

- MATLAB® (working experience), Maple™ (exposure), Ansys® (exposure)
- Inventor® (working experience), Solidwork® (Exposure), Pro/Engineer® (Exposure), AutoCAD® (Exposure),
- Visual Basic® 6.0 (Exposure)
- Code Composer Studio™ (CCStudio 3.3)
- C (Exposure)
- CNC machine programming, and CNC and Lathe machine operating experience
- Glass etching, Photolithography and clean room experience

ACHIEVEMENTS

- Recipient of Sri Lankan Presidential Scholarship for postgraduate education, 2006
- Awarded M. Amaratunga prize for Strength of Materials in B.Sc. Eng Final examination, 2004
- Head Prefect of Dharmaraja College, Kandy, Sri Lanka, 1999
- Recipient of the Gold Medal for The Best All-rounder at school in Sri Lanka, 1999

EXTRA CURRICULAR ACTIVITIES

- **SPORTS**
 - Won COLORS in Athletics at school, University, Provincial and National schools levels in Sri Lanka
- **PAINTING**
 - Won Jawahar Lal Nehru Memorial Gold Medal in Shankar's international arts competition, 1995
 - Won at Painting competitions at school, District and National levels in Sri Lanka.
- **SOCIETY MEMBERSHIPS AND SOCIAL WORKS**
 - Member of American Society of Mechanical Engineers, 2006/2007
 - Member of Mechanical Engineering Graduate Student Organization, MSC's Wiley's Lecture series and Informs TAMU Student chapter in Texas A&M University, 2006/2007
 - Volunteer Project Coordinator at Alcohol and Drugs Information Centre, 2000.
 - Financial Director of Hill Capital Interact Zone, 1999-2000
 - Treasurer of Interact Club and Drug Prevention Unit, Assistant Secretary of Literary Association and committee member of many of the societies at school in Sri Lanka

Eligible for Practical Training**References Available Upon Request**