

Yousef Gharbia

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Education

Doctor of Philosophy (PhD) (Mechanical Engineering) 1999 - 2003

Institution: The University of New South Wales, Sydney-Australia.

Research Area: Nano-grinding and Optical Fabrications

Research Topic: Nano-grinding for Fabrication of Microlenses
On optical fibers endfaces.

Master of Science (Mechanical Engineering) 1994 - 1996

Institution: Universiti Sains Malaysia, Ipoh, Malaysia

Research Area: Aerodynamics

Research Topic: The Use of Add-on Devices on Airplanes-wing tips
to improve wing Performance

Bachelor of Science (Mechanical Engineering) 1987 - 1991

Institution: The Higher Institute of Mechanical and Electrical Engineering, Hoon-Libya.

Focus: Internal Combustion (IC) Engines. It involves intensive study of IC engines as well as all the other automotive components such as gearboxes, clutches, brakes, steering systems, differentials carburetors, injection systems, and others.

Achievement: **3.39/4.0** (GPA)

Higher School Certificate 1984-1987

Institution: Misurata Secondary School, Misurata-Libya

Achievement: score **84.9%**

Employment History

Assistance Professor Sept. 06-present

Institution: Dhofar University, College Engineering

Position: Chairperson, Mechanical Engineering Department

Duties: Teaching Mechanical Engineering courses, contributing to research activity and assisting with administrative duties.

Consultant Engineer (Full-time) Jul-04- to August. 06

Institution: Black & White Engineering Solutions

Position: Technical Project Manager

Visiting Research Associate March 04-Feb 05

Institution: School of Mechanical Engineering, UNSW

Research Area: Fabrication of microlenses on optical fibers endface

Automotive Engineer (part-time) March 04-Jul 04

Institution: Boyce's Autodata

Area: Electronic control unit (ECU)

Duties: Drafter of Mechanical designs and electronic circuits

Part time Academic July 1999 – Nov 2005

Institution: The University of New South Wales, Sydney-Australia

Subjects Taught: Control, Linear systems, Engineering Mechanics,
Mechanics of Solids, and Engineering Experimentations

Lecturer Jan 1997 - July 1999

Institution: Fris Robotics Institute, Penang-Malaysia

Subjects Taught: Thermodynamics, Fluid Mechanics, Heat Transfer, Machine
Design, Theory of machines, Air conditioning, AutoCAD,
Material Science, Dynamics, Statics, Maths, and Mechanics of Solids

Maintenance Engineer May 1992 - Dec 1993

Institution: Ports Company, Misurata-Libya

Area: Material Handling & Storage

Major Awards, Scholarships, and Research Grants

- **The Faculty of Engineering research Scholarship, UNSW** 1999-2003
- **Teaching Award: The Supplementary Engineering Award, UNSW** 1999- 2003
- **The Roger Pysden Memorial Fellowship** 2000
- **The Faculty of Engineering Research Grant** 2001

Research Interests:

- Nano-grinding and optical fabrication
- Optical-fiber sensors
- Flow vortices and drag reduction in aircraft wings

Selected Publications

- **Gharbia**, Y.A., Gareth M., Katupitya, J., “Nano-grinding of micro profiles and microlenses on optical fibers endfaces for use in optical-fiber sensors” Third European Conference on Optical Fibre Sensors, 4-6th July 2007, Napoli Italy.
- **Gharbia**, Y.A., Katupitiya, J., “Loose abrasive Blasting as an Alternative to Slurry Polishing of Optical Fiber Endfaces,” International Journal of Machine Tools and Manufacture, Volume 43, Issue 14, November 2003, Pages 1413-1418
- **Gharbia**, Y.A., Milton, G., Katupitiya, J., “The Effect of Optical Fiber Endface Surface Roughness on Light Coupling,” SPIE, Vol. 6 5252-31, 2003.
- **Gharbia**, Y.A., Katupitiya, J., “Experimental Determination of Optimum Parameters for Grinding of Optical Fiber Endfaces,” International Journal of Machine Tools and Manufacture, Volume 44, Issues 7-8, June 2004, Pages 725-731
- G. Milton, Y. **Gharbia**, J. Katupitiya “Mechanical fabrication of precision microlenses on optical fibre endfaces,” Current Development in Lens Design and Optical Engineering V; The International Society of Optical Engineering, Vol 5523, pp 311-320, 2004.