

**The American College, Madurai
FACULTY PROFILE**



Name: Dr. A. Robson Benjamin

Designation: Associate Professor

Department: Physics

Date of Joining: 1/08/1986

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Educational Qualification:

Degree	Subject	College / University & Place	Year
Ph. D.	Physics	Madurai Kamaraj university, Madurai	2012
M. Phil	Physics	Annamalai university, Chidambaram	1986
M. Sc.	Physics	Nesamony Memorial Christion College, Marthandam	1984
B. Sc.	Physics	Scott Christion College, Nagercoil	1982

Specialisation in Teaching: Electronics, Microprocessor and Microcontroller

Specialisation in Research: Computer based Instrumentation

Research Interests: Instrument Automation

Other Work Experience: Nil

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year – From (month/year) To (month/year)
Head, PG Physics, The American College	From June – 2010

Articles Published in International Journals:

LIST OF PUBLICATIONS

PAPERS PUBLISHED IN JOURNALS

1. “Design of USB based data acquisition system”, Manu Mohan, A.Robson Benjamin and N.Mathivanan, JI. Instru.Soc. India. 36 (4) pp. 257 – 266
2. “Stand-alone data logger with USB host capability”, A. Robson Benjamin and N. Mathivanan, JI. Instru.Soc. India., Vol.40, No.3, September 2010, pp. 239-240.
3. Virtual electrochemical nitric oxide analyzer using copper, zinc superoxide dismutase immobilized on carbon nanotubes in polypyrrole matrix, Thangamuthu Madasamy a, Manickam Pandiaraj a, Murugesan Balamurugan a, Santosh Karnewar c, Alby Robson Benjamin d, Krishna Arun Venkateshb, Kanagavel Vairamani b, Srigiridhar Kotamraju c Talanta 100(2012) 168-174.
4. “A cost effective volume miniaturized and microcontroller based cytochrome c assay” Manickam Pandiaraj, Alby Robson Benjamin, Thangamuthu Madasamy, Kanagavel Vairamani, Paulraj Santharaman, Arun Venkatesh, Kanagavel Vairamani, Chandran Karunakaran Sensors and Actuators A 220(2014) 290-297.
5. Virtual Instrumentation for Electrochemical Biosensor Application, Thangamuthu Madasamy, Manickam Pandiaraj, Murugesan Balamurugan, Arun Venkatesh, Kanagavel Vairamani, Alby Robson Benjamin, and Chandran Karunakaran. Sensor Letters, Vol.14, 1-9, 2014

Commercial Journals

1. Wi-Fi Embedded Webcam, M.Kathiresan, A.Robson Benjamin and C.Vijayan
Electronics For You, September, 2013.
2. Feather- Forecast Monitoring System, M.Kathiresan, **A.Robson Benjamin** and C.Vijayan, **Electronics For You**, October, 2014.
3. Web-based Water Monitor and Pump Controller, M.Kathiresan, **A.Robson Benjamin** and C.Vijayan, **Electronics For You**, February, 2014.

4. Arduino based ESP8266 Wireless Web Server, M.Kathiresan, **A.Robson Benjamin** and C.Vijayan, **Electronics For You**, April,2016.
5. USB Interface using Python Software, **A. Robson Benjamin**, **Electronics For You**, February,2017.
6. Serial Interface using Python Software, **A. Robson Benjamin**, **Electronics For You**, April,2017
7. An ESP8266 Live Fi-Wi, M.Kathiresan and **A.Robson Benjamin**, **Nuts and Volts** January/February 2019.
8. Build a Real Time USB Data Logging System, **A.Robson Benjamin**, **Electronics For You**, November, 2019

Books:

- 1.*BioSensors and BioElectronics* , Chandran Karunakaran, Kalpana Bhargava and **Robson Benjamin**, Elsevier,2015.