

# Robert M. Laurie

*Mailing Address:*

Robert Laurie  
1005 E. Bay Point Rd.  
Bayside, WI 53217

Telephone: (414) 228-7812

Web Site: <http://www.islandman.org>  
Email: [boblaurie@yahoo.com](mailto:boblaurie@yahoo.com)

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## Academic Employment Experience:

### Northern Marianas College

P.O. Box 501250, Saipan, MP 96950, CNMI

Instructor, August 2005 through Present

Teach courses with the following content:

- ◆ Web Site Design
- ◆ Introduction to Programming
- ◆ Java Programming
- ◆ C++ Programming
- ◆ Introduction to Computers

### University of Guam

Computer Science Department, Mathematical Sciences Division,  
UOG Station, Mangilao, GUAM 96923

Instructor, August 2003 through May 2005

Taught courses with the following content:

- ◆ Web Programming
- ◆ Java Programming
- ◆ Database Management Systems
- ◆ Developmental Mathematics: Arithmetic through Algebra

### University of Maryland - Overseas Division

3501 University Boulevard, Adelphi, Maryland 20783

Associate Professor, Iwakuni and Sasebo Japan, August 2001 through June 2003

Lecturer, Guam Micronesia, January 1998 through June 1999

Letters of Recommendation

Taught courses with the following course content:

- ◆ Introduction to Computer Based System
- ◆ Introduction to Programming and Algorithm Design
- ◆ C++ Programming (Visual C++)
- ◆ Web Site Design (HTML and Web Graphics)
- ◆ Dynamic HTML (JavaScript and Cascaded Style Sheets)
- ◆ Management Information Systems
- ◆ Computer Hardware & Software Concepts
- ◆ Database Management and Design
- ◆ Telecommunications & Computer Networking
- ◆ Intermediate Algebra

### **Michigan Technological University**

Electrical & Computer Engineering Department, Houghton, Michigan 49931

Instructor, January 2000 through 2001

Instructor, 1988 to 1990

Graduate Teaching Assistant, 1983 to 1986,

Letters of Recommendation

Taught courses and laboratories with the following course titles:

- ◆ Introduction to Computer Engineering
- ◆ Digital and Analog Electronics
- ◆ Computer Networking
- ◆ Circuits and Instrumentation
- ◆ Linear Control Systems
- ◆ Introduction to Web Site Design
- ◆ Intermediate Web Site Design (Korea University of Technology & Education; Human Resource Development Institute; Chonan, South Korea)
- ◆ ESL Program - Web Site Design (Kyung Pook National University; Taegu, South Korea)

### **Industry Employment Experience:**

#### **Magic Edge Incorporated / LSSI**

1245 Space Park Way, Mountain View, California 94043

Software Engineer, 1994 through 1997

Virtual reality company that produces flight simulation equipment

- ◆ Design and write specifications for both software and hardware
- ◆ Control software programming using C and Visual Basic
- ◆ Control design using PC I/O cards for motion and safety systems
- ◆ CAD wiring schematic layout
- ◆ Project management and vendor procurement

### **John Deere Incorporated**

18600 S. John Deere Road, Dubuque, Iowa 52001

Electrical Engineer, 1991 through 1993

Construction equipment division, experimental test center

- ◆ Durability test design for construction equipment components
- ◆ Servo loop control design
- ◆ Programmable logic controller programming
- ◆ GUI design using Allen Bradley Control View MMI
- ◆ Lab View PC Software used for data acquisition and control
- ◆ Courses Taken: ISO 9000 TQM Training, SLC500 PLC Programming
- ◆ Course Taught: PLC Programming for United Auto Workers Technicians

### **AT&T Bell Laboratories**

1600 Osgood Street, North Andover, Massachusetts 01825

Member of Technical Staff, 1986 through 1988

Digital transmission system division

- ◆ Digital circuit design at systems and board level
- ◆ Manufacturing test automation of in-circuit test area
- ◆ Designed In-Circuit test fixture system (Patent applied for)
- ◆ Courses Taken: Total Quality Management, Robotics, UNIX, C

### **Rosemount Incorporated**

Minneapolis, Minnesota

Manufacturing Test Engineer, 1980 through 1982

Aerospace division, both military and civilian products

- ◆ Manufacturing test automation for avionics sensor products
- ◆ Flow tunnel automation project

### **Licensed Professional Engineer:**

**Michigan License No. 34024** (Since 1988)

## **Authored Professional Publications:**

- ◆ Fundamentals of Digital Systems, McGraw-Hill Custom Publishing, New York, NY, June 2000, ISBN: 0-07-245681-7
- ◆ Sequential Control Synthesis Using State Tables, IEEE IECON'87, Cambridge, Massachusetts, November 1987
- ◆ State Machine Architecture Optimized For Control IEEE IECON'87, Cambridge, Massachusetts, November 1987
- ◆ Slim Line Test Fixtures For In-Circuit Testing, AT&T - Test Conference, Princeton, NJ, October 1987

## **Education:**

### **M.S. Electrical Engineering** (Computer Engineering Emphasis)

GPA=3.83 (A=4.0), Thesis, Diploma, Transcript

Michigan Technological University, Houghton, Michigan 49931

### **B.S. Mechanical Engineering** (Computer Modeling Emphasis)

GPA=3.30 (A=4.0), Diploma, Transcript

Michigan Technological University, Houghton, Michigan 49931

## **Non-degree Courses Taken:**

Michigan Technological University, Houghton, Michigan 49931

- ◆ Database Management
- ◆ Foundations of Education
- ◆ Computers in Education
- ◆ Measurement and Evaluation in Education & Psychology
- ◆ Drawing and Painting Classes

### **Spanish Intensive Language Course**

Bio-Itza Eco-Cultural Escuela, San José, Petén, Guatemala, Certificate, 1999

### **Macrobiotic Cooking Teachers Course**

Vega Institute, Oroville, California, 1997

### **Yoga Teachers Training Course**

White Lotus Foundation, Santa Barbara, California, Certificate, 1991

### **German Intensive Language Course**

Grundstufe II (2 Months), Certificate, Goethe Institute, Munich, German