
HECTOR J. MACHIN MACHIN

P.O. Box 1033
Caguas, PR 00726
Phone: 787-236-3889
E-mail: hjmachin@computer.org

OBJECTIVE

Obtain an opportunity to do work in a place where I can expand my knowledge, enhance my skills and, in the same time, gain experience in the fields of Electrical and Computer Engineering, especially in the area of Computer Architecture, Electronics, High Performance Computing, Parallel Computing, Fault Tolerant Systems and Embedded Systems.

EDUCATION

Universidad del Turabo, Gurabo, Puerto Rico
Expected graduation: June 2010

Bachelor of Science in Computer Engineering
Specialization in Hardware and Software

Bachelor of Science in Electrical Engineering
Specialization in Hardware and Software

Actual GPA: 3.87
Honor Program Student

OPERATING SYSTEMS

Windows Vista, Windows XP, Linux Operating Systems (Debian based: Ubuntu; Slackware based: Slamd64; SuSE based: openSUSE; Red Hat based: Red Hat Enterprise Linux, Fedora), Mac OS X, HP-UX and Solaris Operating System.

PROGRAMMING LANGUAGES

C, C++, C#, Java, Perl, Lisp, Prolog, Shell Scripting, Assembly, Visual Basic.

DATABASE MANAGEMENT

MySQL, Oracle.

WEB PROGRAMMING

JSP, ASP, HTML, XML.

AWARDS

- Elected by Universidad del Turabo Honor Program.
- Elected by Who's Who Among Students In American Universities & Colleges.
- Elected by Tao Alpha Omega international Honor Society and Universidad del Turabo Chapter secretary.

- Third Place, Interamerican University of Bayamon, Puerto Rico, 2007 Programming Olympics.

- Leader Student in Universidad del Turabo tutoring of courses:

- Introduction and Intermediate Computer Programming
- Calculus 1, Calculus 2 and Calculus 3
- Ordinary Differential Equations
- Basic Engineering Circuit Analysis
- General Mechanical Physics
- General Electrical Physics

EXPERIENCE

Undergraduate Researcher

Oak Ridge National Laboratory, Computer Science and Mathematics Division, Research Alliance in Math and Science (RAMS) Program, Summer 2009, "High Performance Computing Resilience Testbed".

Undergraduate Researcher

Texas A&M University, Department of Computer Science and Engineering, REU Program, Summer 2008, "Performance Analysis and Comparison of MPI, OpenMP and Hybrid NPB-MZ".

IEEE Turabo Chapter Computer Society President

Universidad del Turabo, Gurabo, Puerto Rico
Turabo's Computer Society President and program founder.

Tutor

Universidad del Turabo, Gurabo, Puerto Rico
General Physics 1 tutoring, General Physics 2 Tutoring, Calculus 2 tutoring, Ordinary Differential Equations tutoring, Basic Circuit Analysis tutoring.

PROFESSIONAL MEMBERSHIPS

Member of the Institute of Electrical and Electronics Engineers (**IEEE**)
Universidad del Turabo Chapter.

Member of the Society of Hispanic Professional Engineers (**SHPE**)
Universidad del Turabo Chapter.

Member of the Institute of Electrical and Electronics Engineers Computer Society (**IEEE CS**)
Universidad del Turabo Chapter.

Member of the Association for Computing Machinery (**ACM**).