

Ivan F. Aguirre, Jr.

Objective To begin and build a career in Engineering or Software Development.

Education Aug 2003 – Apr 2007 Florida International University Miami, FL
B.S. Computer Engineering **Minor: Business Administration**

- 3.5/4.0 GPA, graduated Cum Laude; Multiple Dean's List placements.
- Lead a Software Engineering course team through the entire software engineering cycle for an online schedule making system for FIU students. This included in-depth work with development cycles (from requirements elicitation through testing and test cases), Software Process Models (we employed Unified Software Development Process), using the Unified Modeling Language, Microsoft Project and IBM Rational Rose softwares for team tasks and deliverables. The project helped me to understand software development beyond merely writing code and familiarize with aspects such as team cohesion and communication, planning tools, meeting milestones, creating deliverables, and communicating effectively/ speaking publicly. The final deliverable was a 91-page document, an achievement of technical writing.
- Lead a Senior Design course team to design, develop and test a head-controlled motorized wheelchair using an embedded Basic Stamp II and the PPBASIC programming language. Being the liaison between hardware and software development, as well as leading the team through motivation and task completion goals, helped me to refine many more skill sets (both technical and non-technical).
Pending Publication
- Lead a multidisciplinary team of electrical/computer engineers to create an AM transmitter using a PICMICRO 16F877A that served two functions: turn the analog audio input into a PWM signal, and generate a 1MHz carrier signal. The signals were amplified combined using MOSFET (TC4422) chips. This project lead to the development of many useful technical skills such as simulation analysis and embedded microcontroller programming/integration.
- Relevant Coursework: Operating Systems Principles, Advanced Windows Programming (WinForms), Logic Design, Integrated Circuits, Programming III (C++ for Java Developers), Computer Design, Parallel Programming, Telecommunication Networks.

Awards/ Honors Runner-up, University-wide ACM Programming Competition – 2007

David Essner (Math Competition) School winner, for South Miami Senior High - 2003

PSAT National Hispanic Scholar (1460/1600) - 2003

1st Place, FML (Florida Mathematics League) - 2003

1st Place, AMC 10 (American Mathematics Competitions) - 2001

Outstanding Achievement in Computer Programming C, South Miami Senior High - 2001

Languages

Fluent in English and Spanish. Beginner study in Mandarin Chinese.

C#: 2yr, **C/C++:** 3yr, **HTML:** 4yr, **Java:** 3yr, **VB/VBS:** 3yr.
Basic, XML, PHP, Perl, MySQL, PeopleSoft (Oracle): < 1yr.

Work Experience

Nov 2006 – Present Florida International University Miami, FL

Data Entry Specialist

- Enter prospective student information (handwritten) into a PeopleSoft 8 system – quickly, effectively, and accurately.
- Created small applications to interface with the PeopleSoft 8 front-end, through self-motivation and direction, to automate many office tasks. Such programs increased office efficiency by 300%. (Some quarterly files may take over three weeks to process, while said applications are able to process the data in under a week, running many instances on several workstations). Automated email entry applications have reduced paper waste (typically 50 sheets per day) and increased input accuracy. Two technical documents have been created to support the programs and include a proposal for their use.

Oct 2005 – Nov 2006 Best Buy, Co. Miami, FL

PC Repair Technician

- Inspect, diagnose, disassemble, and repair computer systems for software, hardware and networking problems.
- Interact with customers, drive sales, communicate effectively and tactfully, perform queue management (phone calls and other customer contacts).
- Store Size: 110-140 employees; Department Size: 12-15 employees.

Aug 2005 – Oct 2005 MID Optimize, Inc. Miami, FL

Webmaster/ SEO

- Create and edit website copy for optimal search engine placement.
- Perform minor System Administration tasks, server upkeep, etc.
- Company Size: 6-10 employees.

Professional References

- Available upon request.