

Mustafa Ali

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Objective

Design and implement innovative products and systems, by combining Computer Engineering expertise with strong analytical, interpersonal and creative skills.

Education

Present	Auburn University <i>Auburn, Alabama</i> GPA: 3.96 / 4.0 Major GPA: 4.0	Bachelor of Science (BS) in Computer Engineering Minor in Business Administration May 2007
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Work Experience

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| April 2006
– Present | Research Assistant
<i>Auburn University Built-In Self-Test (BIST) Lab; Auburn, Alabama</i> <ul style="list-style-type: none">Potential research topics for summer 2006 include built-in self-test of Xilinx Virtex-4 FPGA |
| August 2005
– December 2005 | Co-Op Electrical Engineer
<i>VT Miltope; Montgomery, Alabama</i> <ul style="list-style-type: none">Developed quantitative benchmarks and co-drafted product specifications for a multi-million dollar contractSignificantly improved workplace productivity by replacing existing parts requisition and approval process with a paperless intranet-based solution.Implemented paperless solution using .NET, SQL Server, and on-the-fly PDF generation |
| January 2005
– Present | Electrical and Computer Engineer
<i>Auburn University Solar Car Team; Auburn, Alabama</i> <ul style="list-style-type: none">Rapid-prototyped and deployed a wireless telemetry system for the solar carEnabled real-time wireless monitoring of the car's vital parameters through a GUI interfaceEnabled "over the air" performance optimization of the car |
| January 2005
– May 2005 | Co-Op Electrical Engineer
<i>VT Miltope; Montgomery, Alabama</i> <ul style="list-style-type: none">Overhauled the high-level architecture for the industry's most versatile fully-rugged laptopDeveloped system-level understanding of Intel 915 Express Chipset-based PC architectureCollaborated with engineers at other companies such as ATI and RadiSys on joint projects |
| May 2004
– August 2004 | Co-Op Test Engineer
<i>VT Miltope; Montgomery, Alabama</i> <ul style="list-style-type: none">Resolved major EMI issue across an in-flight terminal product lineInvestigated hardware, software and EMI issues using a variety of toolsCollaborated with other engineers, technicians and non-technical peers in integrated teams |
| 2000 - Present | Project Director, UrduWord.com <ul style="list-style-type: none">Created and continue to maintain a successful web endeavor targeting students and touristsFeatured in prominent magazines and newspapers |

Key Skills

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|-------------------------|--|
| • Hardware: | Intel 915 Express Chipset, Intel Pentium M Processor, some Xilinx Virtex-4 |
| • Languages: | Java, C++, Visual Basic .NET and 6.0, Perl/CGI, PHP |
| • Database Systems: | Microsoft SQL Server, MySQL, Microsoft Access |
| • Engineering Software: | OrCAD/PSpice, Matlab, some LabVIEW |

Key Skills (Continued)

- Operating Systems: Windows XP, 2000, and Linux
- Office/Business Applications: Adobe Acrobat Professional, Microsoft Office, Novell GroupWise, Quicken
- Comfortable in traditional and self-managed team (SMT) environments
- Leadership experience throughout school career
- High-energy, self-motivated, and friendly personality :-)
- Strong analytical and writing skills

Involvements and Leadership

[more involvements at mustafa.ali2000.com](http://mustafa.ali2000.com)

Professional Societies

- IEEE: Institute of Electrical and Electronics Engineers 2nd Vice President
- HKN: Eta Kappa Nu Honor Society Recording Secretary
- ACM: Association For Computing Machinery Charter Member of ACM's National CSTA

Engineering

- Cooperative Education Program Co-Op Electrical Engineer
- Cupola Engineering Society (College Ambassadors) Historian
- Solar Car Team Telemetry System Design
- Student Project and Research Committee (SPaRC) Founding Member; SoutheastCon Coordinator

University Honors College

- Honors Congress Secretary 2005-2006
- Honors College Ambassadors 2005-2006
- Mentor Program Coordinator 2004-2005
- Class Representative – Freshman, Sophomore and Senior Years

Student Government Association

- Student Concerns Group
- SGA Volunteer of the Year
- Auburn Friend Program 2004-2005

Honors and Awards

[complete list at mustafa.ali2000.com](http://mustafa.ali2000.com)

- Academic Awards
 - Honors College Junior Program Certificate
 - Dean's Honor Roll - All Academic Terms
 - Outstanding Minority Student Award
 - Phi Kappa Phi Outstanding Freshman Award
 - Pumphrey Outstanding Pre-Engineering Award
- Honor Societies and Honoraries
 - Who's Who Among Students in American Universities and Colleges
 - Eta Kappa Nu Electrical and Computer Engineering Honor Society
 - Golden Key International Honour Society
 - Phi Eta Sigma National Honor Society
 - Pi Gamma Tau Honorary
- Scholarships
 - Buris R. Boshell Scholar
 - Drummond Company Scholar
 - Freshman Academic Scholarship
- Competitions
 - IEEE International Branch Website Contest 2005 (2nd internationally)
 - 11th Annual All Pakistan Software Competition & Exhibition 2000 (1st in category)
 - SPIDER Magazine's Best of Pakistan on the Internet 2001, 2003

References

References available upon request