

## Aby Kuruvilla

9543 University Terrace Drive, Apt K  
Charlotte, NC – 28262  
URL: <http://www.coe.uncc.edu/~akuruvil>

Phone Number: 704 451 1211  
Email: [akuruvil@uncc.edu](mailto:akuruvil@uncc.edu)

---

**Objective:** To secure an internship in an organization which focuses on Electrical & Computer Engineering, utilizing my knowledge and skills, while achieving organizational goals.

### **Education:**

Masters of Science in Electrical and Computer Engineering      Anticipated Graduation Date: Spring 2009  
University of North Carolina at Charlotte

Bachelor of Engineering in Electronics Engineering      Graduation Date: August 2006  
University of Pune      Percentage: 62.33%

### **Software Skills:**

Operating Systems      : MS DOS, Windows 9X/2000/ME/XP, Unix, Linux  
Computer Languages      : C, C++, C#.net  
Web Technologies      : Microsoft FrontPage, HTML, Java Scripts, Dreamweaver, ASP.net  
Microsoft Office      : MS Word, MS Excel, MS PowerPoint, MS Access  
PCB Designing Software      : Protel 99SE, Express PCB, Multisim  
Packages/Tools      : Matlab, Macromedia Flash, 3DS MAX  
Microprocessors/Controllers      : Intel 8085, 8086, 8051, Renesas M16C, TI MSP430

### **Job Experience:**

#### **Graduate Assistant at University of North Carolina at Charlotte: Oct 2007 – Present**

Work as Graduate Assistant at 'The Office of Research Services, UNCC'. Responsibilities include handling databases, and helping in paperwork for research at UNCC.

#### **Internship at Honeywell Automation India Ltd: 2005-2006:**

Undertook an internship in the PWA Manufacturing Department of the company. Learnt about environmental test chambers and also made a controller for their environmental test chambers.

### **Projects:**

#### **Multicore Computing - Spring 2008:**

Implementing parallel program for image edge detection using POSIX Threads and then optimizing code for running on PS3(Play Station 3) Cell processor.

#### **Autonomous Robot: Fall 2007- Spring 2008**

Building an autonomous obstacle avoiding robot for our Embedded Systems Project. The robot moves using a differential drive and its obstacle avoidance is based on the photovore algorithm.

#### **A Qualitative Comparison between ARM and AVR architectures: Fall 2007**

Did a qualitative comparison and study of ARM and AVR architectures and wrote a paper as part of our Computer Architecture class.

#### **Real Time Fully Programmable Thermal Process Controller: 2005-2006**

Made a controller for controlling various processes of environmental test chambers at Honeywell Automation India Ltd as part of our Final Year Undergraduate Project.

**Electronic Voting Machine: 2004-2005:** An economical, digital, electronic voting machine, using logic gates for four contesting candidates.

## Aby Kuruvilla

9543 University Terrace Drive, Apt K  
Charlotte, NC – 28262  
URL: <http://www.coe.uncc.edu/~akuruvil>

Phone Number: 704 451 1211  
Email: [akuruvil@uncc.edu](mailto:akuruvil@uncc.edu)

---

### **Courses Taken:**

#### **Undergraduate Courses:**

Digital Electronics  
Microprocessor and Microcontrollers  
Control Systems  
Power Electronics  
DSP and Image Processing  
Electronic Communication  
Computer Networking

#### **Graduate Courses:**

Embedded Systems(Fall07)  
Computer Architecture(Fall07)  
Research Techniques in Computer Engg(Fall07)  
Advanced Embedded(Spring08)  
Multicore Computing(Spring08)  
Digital System Testing(Spring08)

### **Memberships and Extracurricular Activities:**

- Member of IEEE (Institute of Electrical and Electronics Engineers)
- Member of EESA (Electronics Engineers Students Association) at P.D.E.A's College of Engineering, Pune.
- Member of Youth League of my parish in Pune, India.
- Volunteer in Tech Fest and Cultural Meet -2004 & 2005 at P.D.E.A's College of Engineering, Pune.
- Worked as Library Assistant at Loyola High School and Junior College Pune from 1997-1999