

Zunayed Ali

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U.S. Citizen

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Education

Polytechnic Institute of New York University

Bachelor of Science Electrical Engineering: 2010

Brooklyn Technical High School

Electrical and Computer Engineering: 2006

Work Experience

Advance Acoustic Concepts: Hauppauge, NY

Summer 2009

Electrical & System Engineering Intern:

- Found optimal azimuth and elevation to improve signal to noise ratio used in ballistic projectile
- Implemented scoring system that used 4 radar sensors to test 25 mm M910 and M793 rounds
- Created an extension in ballistic tracking program to test different retardation coefficients
- Created a GUI for plotting position vs. time of bullets based on user input
- Added functionality in open source program GTKGRAPH to plot multiple sets of projectile data

Staples: Manhattan, NY

2005 - 2009

Senior Specialist

- Supervisor for EasyTech Associates and customer service
- Completed EasyTech computer repairs and upgrades
- Assisted customers in purchasing computers, network equipment and office supplies

Personal Technology Consultant: New York, NY

- Helped clients integrate new emerging technology and services into their daily live
- Assisted users in transitioning from windows based work environment to Mac OS and Linux

Projects

Joystick Controlled Pan Tilt Webcam

Python script interprets accelerometer data and relays to a webcam atop two servos that allows you to control the movement in xyz plane.

Programmable Button Pad

Handles actions for turning LEDs on/off and transmits button push/release signals. Each button is programmed with an Arduino microcontroller to perform different functionality such as checking emails, weather, stocks etc.

Motion Detecting Paintball Sentry

With servos, microcontrollers and webcam, implemented motion tracking and firing of a paintball gun

DC Power Supply Tester

Validate manufacture's rated output voltage & % load regulation for ac adapters. Designed a transformer along with a buck converter using RC filters to clean signals in Simulink – Matlab

Home Light Dimmer/color Mixer

Using Open Sound Control iPhone app that sends messages over a Wi-Fi network using UDP protocol, designed an interface that allows the user to control the color and brightness of LED lights.

Skills

Languages: C++, C, Python, Visual Basic, Obj-C **Systems:** Windows XP/Vista/7, Linux, Mac OS

Programs: Matlab, AutoCAD, Pspice, Visual Studio, Xcode, Microsoft Office Suite

Activities

President of Institute of Electrical and Electronics Engineers (IEEE) Charter

Coordinated meetings to teach basic circuit design and microcontroller programming
Proposed, planned, and prototyped projects

Dtostillwell.com

Run a website for electronics projects alongside a photoblog

Recognition

Recipient of IEEE Student Branch Award

For outstanding service to the branch and the ECE Department