Zirgham Ilyas

S/O Dr. Muhammad Ilyas Bhatti
House no. 427, Street no. 57, I8/3, Islamabad
z.ilyas@hotmail.com
+92-3314965742

CAREER OBJECTIVE

To seek challenging assignment and responsibility, with an opportunity for growth and career advancement as successful achievements.

EDUCATION

BS Electronics June 2017

- Quaid-i-Azam University, Islamabad

CGPA 3.1/4.0

FSC Pre-engineering September 23, 2013

- Punjab College (Campus 8), Lahore

Marks 812/1100

Matric August 02, 2011

- Don Bosco High School, Lahore

Marks 826/1050

WORK EXPERIENCE

- N/A

ACADEMIC PROJECTS

Maze Solving Robot:

As we know that this is a modern era and almost everything involves automation to save time so we are making a vehicle that automatically judges the shortest way and helps us to save our time. This vehicle can be used in cars, school busses and above all this can be used in ambulances and fire brigades because time has got much importance for them and this will helps to avoid life damage of human being.

In order to make this vehicle we need digital and analogue sensors (to follow the line), H-Bridge Module (to control the motor speed), DC motors (to move the vehicle), batteries and Arduino (to control sensors and H-Bridge Module).

Salient features Detection from foggy images using Open CV (C++):

In this assignment, I took foggy images as input. First I removed fog from images by converting to YCrCb format and then equalized the histogram by taking its luma (Y) part by splitting into channels and then I smoothed the image to remove noise then detected salient features on the basis of different mean and standard deviation.

Different basic operations on images using Open CV(C++)

In this assignment, I did different basic operation on images like brightness and contrast control, detected different objects from image, split and merged channels of image, opened webcam.

- **Automatic bottle filling using DC Motor**
- **Maze Solving Vehicle**
- **Interfacing LCD with Ardunio**
- **Ardunio relay control**

TECHNICAL EXPERTIES

Electronics	Digital Logic Design	Signal and System
Control System	Communication System	Digital Signal Processing
Digital Image processing	Wireless Communication	Real Time System
Transmission Lines and Antenna	Electromagnetics	

Computer Skills: MS Word, MS Power Point, MS Excel, HTML, Programming c++, Open CV(c++).

Designing Tools: Keil, Multisim , MATLAB, Ardunio, OPEN-CV

Languages: C++