(630) 677-2468 <u>mnasir@hawk.iit.edu</u> <u>linkedin.com/in/mhnasir</u>

OBJECTIVE

To tackle complex engineering problems with ingenuity and teamwork to accomplish the goal of the company.

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY

Bachelor of Science in Computer Engineering expecting to graduate in the May of 2018

August 2015-May 2018

- Relevant courses completed:
 - o Object Oriented Programming
 - Introduction to Electrical Engineering
 - Circuit Analysis
 - Digital Systems
 - Data Structures and Algorithms
- Major GPA: 3.53, Cumulative GPA: 3.41
- o Digital Computers and Machine Language
- Math: Calculus 1,2,3 and Differential Equations
- Discrete Structures
- o Systems Programming
- Introduction to Mechanics

SKILLS

- Programming Languages: Python, Java, C, JavaScript, HTML.
- Platforms: Arduino, Raspberry Pi, ESP8266
- IDE's: PyCharm, Eclipse, IntelliJ, NetBeans
- · Linux System Programming
- Front-end and Back-end web development
- Familiar with Git Version Control and continuous delivery and integration concepts (Chef, Jenkins etc.)

AWARDS AND HONORS

- College of Science Dean's List Awardee for Fall 2015 and Fall 2016
- IIT International Scholarship awardee
- IEEE-Eta Kappa Nu Delta chapter scholar for academic excellence
- Won touch-sensor-exclusive robotics competition (See Projects/Maze Solving Robot)
- Newland's 70% scholarship awardee (High school)

PROJECTS

The Hover-disc

Currently working with a team on an **Arduino controlled floating hover-disc** made from Styrofoam that senses and pushes away from incoming and approaching objects. Can be used to play real life air-hockey with feet. Expected to be completed before Spring 2017

Personal Home Automation System

Arduino Controlled mini-home automation system for a room that controls lights based on voice recognition and various sensor readings (e.g. light, proximity). For example, when the light in the room is low and the proximity sensor registers a reading of someone's presence in the room, a voice prompt will ask the person whether he/she wants to turn on the lights.

Power-grid Simulator

Programmed a real-life **power grid simulation program** that distributes power to consumer units in a way that does not **overload power distribution systems** (i.e. Transformers, three-phase power sources etc.).

Lottery Simulator

Programmed a **lottery simulation program** that can support over 100,000 players with configurable prize distribution systems using **Java**.

Maze solving robot

Worked with a team to **engineer a small vehicle** out of LEGOs that uses **light and touch sensors** to **autonomously** navigate through any random maze with either physical or paper-tape walls using the **Handy-board microcontroller**.

LEADERSHIP AND COMMUNITY SKILLS

Pakistani Student Association

Treasurer

- Work with the president to organize and schedule events. Assume the role of the president in his absence.
- Responsible for deciding and altering budgets with the Office of Campus Life. Emailing cooperatively with fellow executive board members and outside parties.
- Conducting seminars and setting up conferences with the help of the executive board.

Beaconhouse Newlands Debating Society

Vice president

- Coordinated with Model United Nations exec-boards, conducted MUN trials and participated in conferences.
- Worked with coach and president to hold two debating sessions per week.