

# MANJINDER SINGH



Manjindersingh101@gmail.com

(917) 655-1868

New York



www.linkedin.com/in/manjinder-singh-122aba158

Manny789.github.io

Software developer who is a fast learner, hardworking and a team player with a creative mind set for problem solving. My knowledge expands further to end user support, network topologies, IT operations, and technical program managing. I enjoy opportunities that require increasing levels of responsibility and professional growth. Recognized as a skilled leader who identifies high-potential opportunities, develops customer engagement strategies, NPV strategy and to discover innovation breakthroughs and drive rapid growth.

## Skills

### LANGUAGES & FRAMEWORKS

Ruby  
Ruby on Rails  
JavaScript  
jQuery  
Ajax  
HTML5  
CSS  
Sinatra  
React  
C++  
C#  
Assembly

### METHODOLOGIES

Object Oriented Development  
Test Driven Development  
Agile Development

### DB, TESTING & VERSION CONTROL

PostgreSQL  
SQLite  
ActiveRecord  
RSpec  
Git  
GitHub  
Arduino

## Education

New York City College of Technology  
BTECH Computer Engineering 2019

Jan. 2017 to Current

New York City College of Technology  
AAS Electromechanical Engineering 2017

Aug. 2013 to Jan. 2017

## Educational Background

### Computer Engineering

- Microcomputer architecture and the basic concepts used in the Personal Computer (PC) using C programming language.
- Assembly language programs to utilize and gain insight into machine level operations.
- Applications of principles of electrical circuit analysis to the solution of practical network problems, with emphasis on steady-state AC Circuits.
- Using Analog and digital techniques to take into account standards, precision, accuracy and sensitivity in the data-acquisition process.
- Programming concepts and software development techniques for computer controlled systems.
- Technologies, protocols, and techniques used to connect a computer network with other networks through the use of gateways.
- Local Area Networks (LAN) and Wide Area Networks (WAN) implementation, wireless networks implementation, network security, advanced switching and routing configuration, advanced TCP/IP configuration, and network management.

### Electromechanical Engineering

- Understanding electrical circuits, IC chips and their implementations.
- Coding with python and C/C++.
- Diagnosing/troubleshooting computer hardware and software issues.
- Creating 3-Dimensional designs using computer aided drafting.
- Developing embedded systems.
- Electrical manufacturing processes
- Developing IOT devices
- Understanding of mechanical hardware aspects and gear operations within PC.
- Advanced mechanics of pneumatic and hydraulic systems.
- Setting up multipoint communications.
- Study of OSI and TCP/IP models, data transmissions, transmission media, network topologies, network cabling system, IP addressing, TCP/IP suite, local area networks (LANs), wide area networks (WANs), wireless network, and network security.

## Projects

### Bolla Oil

- Bolla Oil is an company operating over 85 locations in the New York/Long Island Area.
- This website was designed using HTML5, CSS3, Bootstrap, Javascript, PHP, and JQuery.

### Holiday Show Pi

- Using Linux operated device Raspberry Pi
- Implementation of hardware design techniques using a breadboard, male to male/female jumpers, and Christmas lights.
- Implementation of software code for proper in-device functionality.
- Implementation of syncing methods and parameterization.
- Implementation of brightness tools to user preference/friendliness.
- NPV strategy solution to design and help reduce cost resulting in higher revenue for holiday light show companies.

### Mood Lamp

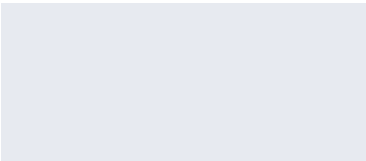
- Using the ESP32 micro-controller with onboard bluetooth and WiFi we developed an IOT device.
- Using Arduino IDE and C++ computer language.
- Developed a code to communicate with the micro-controller via WiFi.
- Implementation of RGB LEDs parameters and scopes.
- Implementation of IOS APP communication via WiFi.
- Implementation of mood sensors.
- Implementation of APP lights/brightness/ONOFF controller
- Development of hardware design via 3D printing.
- IOT Device technologies making it user friendly and consumer cost effective.

## Awards

New York City College of Technology · National Honors Society of Leadership & Success

Aug. 2017

## Activities



Microsoft Hackathon  
- Overlooking Microsoft developer's to build code and design for Artificial Intelligence.