

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/ON/OFF 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

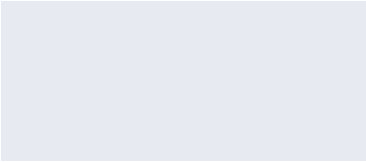
Aug. 2017

Activities

Microsoft Hackathon

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

Volunteering



Sikh Cultural Society · Educator
New York
- Teaching young youth basic commands and network operations.

June 2017 to Aug. 2017