MANJINDER SINGH S

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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 — Jan. 2017 to Current
BTECH Computer Engineering 2019

New York City College of Technology — Aug. 2013 to Jan. 2017
AAS Electromechanical Engineering 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 hardwire 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.