

1 Embedded Systems Engineer:

- connection between hardware & software
- Microcontrollers, microprocessorstugirfindularers, uri
- C, C++ , assembly
- efficient/optimized with limited resources

- designing secure systems
- hardware & software solutions like: fixmalls, intrusion detections, antimalware

3 Electrical Engineer:

- Hardware Jesigh
- circuit design
- PCB layout/design Micro controllers & Processors

9 Firmhare Developer:

- Design Firmware Architecture for specific hardware platforms
- C, C++, Assembly
- Develop drivers & interfaces to enable communication between hardware and software

5 Junior Cybersecurity Analyst:

3 Cybersecurity Internship:

- investigating cybersecurity incidents
- network security manitoring scripting & Automation of tosks

(R) Cybersecurity certificates:

- [fill this after completing a few]

(P) USB Rubber Ducky:

- Oscilloscope
- Arduino nano, CH
- USB protocol - Vindous Powershell
- 3D printing

@ Electrical Busics:

- Resistance, Voltage, Current
- Basic Logic Gates
- PCB Design
- soldering

M Nathacks Hackathon:

- Intro to Ardninos
- Muscle movement detection hardware/software
- Noise reduction Software
- CH, Arduino IDE, Python Busic Game design
- Threading in Python

M Comput 379 Operating Systems: - [Fill this after taking the class]

(Discover E Technology Specialist (co-op):

- Google sheets/forms
- Jamscript, Appscript, Python, SQL, HTML, Block Coding
- Employee Sign in/out system, Materials Inventory System
- Lego Robotics
- Tech support - 3D Printing, Laser cutting

- Junscript, Block caling, python, Unity
- Scratch, Makecole Areade, Lego robotics
- Teaching & classroom Management

BWSI swiming Instructor Training:

- Teaching Swimming
- Confidence and Communication skills to talk to and track children

- Sougle Sheets:Budget Tracker, Todo List
 - Inventory Management System
 - Appscript, Tomaript, HTML - Sheet Formulas

A) Comput 2,91 Database Managarent:

- SQL, Mongo DB, python
- Dormbuse Management
- Queries

6 Malware Development:

- key Loggers
- Papillon
- Trogans

- c#

- (F) Comput 229 Computer Architecture: - RISC-V Assembly
 - Composter Architecture: CPU, Memory, Logic gates - Floating Point Arithmetic

@ Neural Networks:

- Processesing IDE, Jamscript, C, C++ - XOR problem
- Genetic Algoriths
- Back propagation
- Basic Some design as a training grounds

6 3D Game Engine:

- Jamscript Commos API
- Self made matrix & vector math libraries - Orthogonal/perspective Projection

@ Comput 201 Unix & C:

- unix & ubnutu Linux
- C & c++ - Make files

(B) Math 175 Linear Algebra 1:

- Matricies & vectors - RREF
- Orthogonal Projection

4 home Development:

- Javascript Convos API
- Processing IDE
- 00P
- Basics of programming
- HTAL
- Sprite Jesigh/art
- sound integration libraries

TO DO

3 Find out what to do with compact 340 and the course after it (maybe connect this to here)

Find the next step offer Electronic Bosics

© Find the connection from the Electrical Engineer

Find the connection from TA position to firmware Engineer

© and connect this to it

Figure ant what to be with operating systems after 372