Israel Kinfu

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Education

University of Maryland, College Park, MD **May 2019**

B.S. Electrical Engineering

Skills

Platforms /Languages: C/C++, Python, Linux

Software/Tools: bash scripting,Git,Container(Docker,Podman),CMake,QT GUI,MATLAB, LabVIEW,Visio, Jira,CANoe/CANalyzer/CAPL Scripting.

Interests: AWS/Azure, Dev OPS, Cloud Computing,Jenkins,Ansible,Terraform,CI/CD Pipeline,Kubernetes.

Work Experience

Associate Software Engineer :L3 Harris Technologies, Greenville, TX **June 2022-Present**

- Developed using C++/Python and took an active role in systems integration and core application development.
- Involved in a completed Software Development Life Cycle.
- Participate in the DevOps design, Development, Testing and release of new features.
- Performed Unit testing and system level testing for all phases of application development cycle.

Level 2 Electrical Systems Design and Analysis Engineer: Boeing, Oklahoma City, OK **Aug. 2019 - June 2022**

- Supported Component and sub-system design analysis and trade- off studies .
- Performed environmental and system qualification tests to verify operational and functional requirements.
- Reviewed engineering designs and test plans to ensure they're free of potential hazards or safety risks.
- Managed Projects to meet performance, schedule and cost goals.

Software Engineer Co-Op: Harley-Davidson Motor Company, Wauwatosa, WI **Aug. 2017- Dec. 2018**

Project Livewire, Harley Davidson's first production electric motorcycle

- Developed software requirements related to CAN network and troubleshoot component/system engineering parts/modules.
- Simulated a vehicle CAN network nodes using CANoe with CAPl scripting as well as with Matlab Simulink.

Infotainment team

- Supported software/Hardware development and tested the UI and CAN diagnostics on the 2019 BoomBox GTS Infotainment.
- Optimized software requirements related to CAN network traffic for systems integration.

Embedded Engineer Intern: Juxtopia Llc, Johns Hopkins University, Baltimore, MD **May 2016- August 2016**

- Worked on AR Goggles and Software systems with leading Professional Software and Hardware Engineers.
- Used Assembly and C/C++ to Debug and Trace ARM cortex-M processor.

Technical/Engineering Projects

125 mile E-bike Challenge at UMD Department of Electrical Engineering College Park, MD **Feb.2019- DEC. 2019**

- Leading a team of four to construct an e-bike that can run up to 125 mile a single charge.
- Integrated Current, voltage and speed sensor embedded with CAN BUS communication protocol and IOT.

Winner of 2018 Alumni Cup competition at UMD Department of Electrical Engineering College Park, MD **Feb.2018**

Conversion normal bike to E-bike published on Instructables and Github **Dec. 2018**

Northrop Grumman IOT challenge **March 2017**

- Smart door lock system with three authentication systems (biometrics, RFID sensor, and Bluetooth) on raspberry pi.
- Developed a camera that captures a user entering the door and upload the data with timestamp.

Tarps Racing Baja Electronics Team **August 2016- Feb.2019**

- Collected RPM and engine performance data using Race capture module.
- Integrated GPS and 3G data into the system and captured driver impact data in real time.

Smart Mirror Project **March 2016**

- Established smooth face tracking on the mirror using Raspberry pi with OpenCV Application Programming Interface.
- Developed control system that displays calendar and weather with voice activation.