

# Nikolay Nikolov

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## Summary:

Senior Computer Engineering student interested in FPGAs, semiconductors, embedded systems, the Linux Kernel, Linux device drivers, Ethernet and Robotics. My life long aspiration is to contribute to the technological revolution that is reshaping the world,

My personal mission statement is **"Empower the people around you, be proactive, take action, do your best, learn from your mistakes, and continually improve."**

## Recent Work History:

2018 – **June 2019: Technology Enabling Intern** -  **Intel Corporation Hillsboro**, OR, 97124

- Analyzed and managed procurement requests for server platforms shipped to Independent Hardware Vendors for testing and validation
- Consistently met deadlines and delivered superior outcomes
- Responded to customer enquiries in a timely manner, resolving 80% of issues
- Built macros using VBA improving efficiency
- Run internal events where validation engineers ordered pre-production PCIe boards for testing
- Performed statistical analysis for past platform tests utilizing multiple statistical tools
- Created internal user manuals for my duties
- Promoted cross-functional team support for anything PCIe Gen4 related such as software and hardware

## Education:

### **Bachelor of Science: Computer Engineering, June 2020**

- Portland State University - Portland, OR
- Coursework in Electric Circuit Analysis, Digital Design and Microprocessors, Electronics, Linux Drivers, Compilers, Data Structs

### **Bachelor of Science: Business Administration, December 2015**

- City University of Seattle - Seattle, WA
- Coursework in Project Management, Financial Accounting, Applied Economics, Marketing

## Skills:

### **Hardware:**

- Analog Filters Design
- Analog Circuits
- LTSpice
- ModelSim
- Vivado
- MATLAB
- ASIC Design

### **Software:**

- C
- C++
- Python
- MS VBA
- SystemVerilog
- Data Structs
- SQL

### **Other:**

- Native Greek, Bulgarian
- Excel, Word, PowerPoint
- Linux / Mint /Ubuntu
- Arm Assembly
- X86 Assembly
- Operating Systems
- Technical Writing

## Projects:

- LED Traffic Light Controller using MATLAB
- Analog Butterworth Filters to output an LED light show from MP3 input
- Various C++ Programs utilizing Data Structs
- I2C LCD driver
- RS 232 Speech Synthesizer Driver
- PCI Linux Device Driver
- CMOS Design and Simulation using LTSpice
- Various C implementations with Linux System Calls
- Different Linux Kernel Module Implementations
- System Verilog Testbenches and various designs
- VBA Macros
- Bash Scripts