ARSEN MOMJYAN

SOFTWARE ENGINEER

CONTACT

- Yerevan, Armenia
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SKILLS

Languages: C, Java, Python, Perl
Operating Systems: Linux, Windows
Version Control: Git, P4
Other: Jira, VS code, Vim, NeoVim etc.

LANGUAGES

Armenian
English
Russian

AREA OF INTEREST

Data Structures
Algorithms
Operating Systems
Object-oriented design

PROFILE

Self-motivated Software Engineer with proven expertise in Linux Kernel driver development for USB with C programming language. Skilled at finding the most efficient implementation for his project both as a cross-functional team member and individual contributor. Always working on my problem-solving skills, and looking for new learning opportunities and new challenges. Working at Synopsys Inc. as a Software Engineer Sr. I for the DWC2, and DWC3 drivers for the USB controller and internal products

WORK EXPERIENCE

Software Engineer Sr I

Synopsys | USB IP Group | Jan 2023 - Now

- Responsible for maintaining internal driver for hardware validation
- Working on a Command line tool for hardware validation
  - Writing specs like functional spec, User spec, Implementation spec, etc.
  - Working on Implementation from scratch (python)
- Working on enhancements of the internal platform driver
- Responsible for hiring and onboarding (training, managing) new employees in the team

Software Engineer, II

Synopsys | USB IP Group | Jan 2021 - 2023

- Added a set of functionality to the internal drive,
  - Scatter/Gather support
  - Soft Reset Support
- Add data generation and transfer with the specific data pattern.
- Enhancement of internal driver for supporting data transfer with time duration.
- Enhancement of USB driver to support firmware bootloader for USB core.
- Created Ethernet Ctest driver/application
- Enhance driver scripts for aborting the driver and get results and the driver's status.

Software Engineer, I

Synopsys | USB IP Group | Jan 2019 - Dec 2020

- Created script with Perl for Jenkins automation
- Script for building a driver
- Script for generating driver documentation
- Added parsing function framework for an existing driver. Enhance Script for LeCroy analyzer

EDUCATION

Ph.D. in Electronics: Micro and Nano Electronics of Integrated Circuits
State Engineering University of Armenia, Graduated with honor (2019 - 2023)

MSc in Engineering Electronics: Computer Engineering of Integrated Circuits
State Engineering University of Armenia, Graduated with honor (2017 - 2019)

BSs in Engineering: Electronic Mean
State Engineering University of Armenia, Graduated with honor (2013 - 2017)