# * Preparation for Embedded Systems Roles

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# About

- ECE'16
- Specializing in SPPR - no embedded specialization at IIIT-B :(
- Interests in embedded software, kernel development, ML for systems
- Experiences (related):
    - Project Elective w/ Prof. Subbu (8th Sem) - TVM
    - The Linux Foundation (GSoC'20) - IIO driver for gyroscope in the Linux kernel v5.10
    - Project Elective w/ Prof. Sachit Rao (9th Sem) - cpufreq governor for energy optimal execution of tasks on a system (paper under review)
    - Semester project w/ Prof. Nanditha Rao (9th Sem) - influence of cpufreq on time-sensitive cache side channel attacks
    - Qualcomm (10th Sem) - Linux audio subsystem

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* Couples well with virtually all domains - Robotics, IoT, sysadmin/ops, Distributed computing, Systems for ML, ML for Systems, Embedded hardware security...

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## Prep for embedded roles - a myopic view

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* Scripting - bash, Python

✚ Operating Systems - The Dinosaur Book - "Operating Systems Concepts" by Silberschatz, Galvin, and Gagne

✚ Data Structures and Algorithms - g4g, practice on Leetcode and CF

✚ Kernel internals - LDD3 - "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and GregKH

## Ending notes and/or preachings

Please don't stress it out!
Recognize what YOU are looking for.
Reflect on what you can "provide".
Look at failed interviews as an opportunity to learn more about you.
Again, don't let anxiety take over - focus on YOU and YOUR growth.