Talent Profile-
Embedded
SW/FW
**Embedded Software Engineering**
(Talent Profiles)

### Minimum Qualifications

- Programming skills in C/C++/Python/Assembly
- Signal processing, wireless communication, control system
- Embedded system, real-time operating system (RTOS)
- Computer architecture, operating system

### Additional Qualifications

- Communication systems, communication theory, digital signal processing (DSP), embedded system
- Knowledge of wireless protocols such as 5G NR, LTE and 802.11
- On-device learning, wireless domain ML

### Technical Track

- **Wireless Communication**
- **Power, Performance, Memory**
- **GNSS (Satellite Nav + Location)**
- **Embedded SW**
- **Computing/tools**
- **Integration/Test**

### Technical Track: Wireless Communication

- Comp arch, RTOS, NR 5G/LTE protocols, embedded design
- Software performance analysis and optimizations
- Sw image size compression, and other memory usage opts
- Power analysis and power/performance data mining

### Technical Track: Power, Performance, Memory

- Embedded GNSS receiver software architecture/design
- Measurement Engine, Position Engine and GNSS protocols
- Hands-on experience implementing and debugging GNSS SW

### Technical Track: GNSS (Satellite Nav + Location)

- Real-time operating system (RTOS), computer architecture
- Embedded system design, microcontroller programming
- Proficient programming skills in C/Assembly

### Technical Track: Embedded SW

- Computer architecture
- Programming languages, tools and compilers

### Technical Track: Computing/tools

- Continuous integration (CI), DevOps
- Automation scripting in Python/Perl/JavaScript
- Knowledge of wireless protocols in WWAN and WLAN

### Technical Track: Integration/Test

- Bachelors/Masters/PhD: Electrical & Computer Engineering, Computer Engineering, Computer Science
- Volume: High
- Niche Skillset Level: Medium
Interested in Embedded SW/Firmware Internships?

Please Apply here:

Software/FW Engineering Internship- Summer 2023

REQ# 3042986