JOB DESCRIPTION

Job Title: Research Engineer
Grade: Engineer/Senior Engineer
Organisation: GSM SAPAC-AUTO
Department/Unit: PL ADAS
Location: Singapore
Reports to:

- Main Purpose of the Role
  He/she will take up the role of research engineer for ITS (intelligent Traffic System), which is the key focus of the Product Line Advanced Driver Assistance Systems.
  Main tasks are:
  - Conducting researches that are to improve next generation V2X PHY layer robustness and efficiency
  - Define methodology to understand and compare different V2X communication schemes and coding algorithms
  - Knowledge transfer to BU-Auto development teams

A. Job requirements:

We are looking for a highly innovative and self-motivated individual, holding a Fresh graduate / Master student with good honour degree in Electrical & Electronic Engineering with focus on Wireless communication
Requirements are:

- Area of specialization in Final year / Master with specialization in Wireless communication system
- Extensive knowledge of digital communication theory and signal processing is required
- Experience and exposure to MIMO communication, Modem protocol standards such as OFDM and SC-FDMA are added advantage
- Experience with algorithms using MatLab, Python, etc. Experience with programming in C/C#/C++, MatLab, etc.
- Familiar with FPGA design is an advantage
- Creative and lateral thinker, interested in innovation as well as in practical results.
- Team player with good communication skills in English.
- Fresh Graduates can apply
- **Applicant must be a Singapore or Singapore PR**

Successful candidates will be offered a Full time employment with NXP and a PhD scholarship with NTU.
NXP Semiconductors

NXP Semiconductors was created on 29 September 2006 from Philips Semiconductors. We are a global semiconductor company and a long-standing supplier in the industry, with over 50 years of innovation and operating history. In 2009, we achieved sales of USD 3.8 billion, we have approximately 28,000 employees.

We provide leading High Performance Mixed Signal and Standard Product solutions that leverage our deep application insight and our technology and manufacturing expertise in RF, analog, power management, interface, security and digital processing products. Our product solutions are used in a wide range of automotive, identification, wireless infrastructure, lighting, industrial, mobile, consumer and computing applications.

For more information follow this link: [http://www.nxp.com/](http://www.nxp.com/)

**Application procedure**

- Submit your resume to Shirley.chua@nxp.com and andy.hung@nxp.com
- Include all full transcripts and publications/links to publications
- Include mobile contact number and email in your resume

Only short listed candidates will be contacted for an interview.