Research Engineer I (Electrical/Electronic Engineering/Mechatronics/Robotics)
Nanyang Technological University

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Job Title	Research Engineer I (Electrical/Electronic Engineering/Mechatronics/Robotics)
Department	School of Mechanical & Aerospace Engineering (MAE)
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 12, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Mechanical Engineering
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Engineer-I--Electrical-Electronic-Engineering-Mechatronics-Robotics-_R00016741
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Job Description	

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Nanyang Technological University

The School of Mechanical & Aerospace Engineering (MAE) invites applications for the position of Research Engineer I.

Key Responsibilities:

- Assess requirements then transform into preliminary designs and prototypes.

- Design, implement, debug, and refactor the firmware of robotic device/mechatronic system.

- Define and execute qualifying criteria of every development stage.

- Coordinate prototype manufacturing and solution deployment.

- Perform stringent risk and root cause analyses to ensure high-quality.

- Analyse the operation data of robotic device/mechatronic system deployment.

- Optimize development's processes as well as costs.

Job Requirements:

- Bachelor's degree in Electrical/Electronic Engineering, Mechatronics, Robotics, or related fields.

- Solid ownership, user-centered, and quality oriented.

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Solid experience in designing robotic device/mechatronic system.

- Proficient in kinematic/motion analysis.

- Proficient in embedded system designs and firmware development using C/C++.

- Familiar with general buses including I2C, SPI, UART and USB

- Any of the followings would be plus:

  - Experience in C#.

  - Experience in PCB design.

  - Familiar with STM32 MCU and development/debugging tool chain.

We regret that only shortlisted candidates will be notified.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore