

### 2025 EECMS Summer Internship Application Form

Main Supervisor	Hui XIE
Other supervisors (if applicable)	
Project Title	Large Language Model Based Mobile Robot Navigator
Student location(s) for the project	Bentley
Duration of project	Eight weeks
Project Description	<p>This project aims to train Large Language Model (LLM) to use a mobile robot navigation API with only a few examples. The trained LLM will bridge natural language commands to navigation API without an intermediate parsing steps, and create code to navigate an autonomous robot to perform robotic tasks for various missions described by natural language. The developed product can be applied to various industry sectors, including but not limited to</p> <ul style="list-style-type: none"><li>• Assistive robots in healthcare</li><li>• Battlefield command system</li></ul> <p>The product will be also demonstrated to high school students at Curtin Open Day to show Curtin's research strength in the area of robotics and artificial intelligence.</p>