

**Nanyang Technological University – Economic Development Board  
Industrial Postgraduate Programme (NTU- EDB IPP)**

**Project details**

NTU Faculty	Asst Prof. Lin Shang-Wei
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School	SCSE
Collaborating Company	ASTM ASIA PACIFIC
IPP Project title	Developing Secure Private Blockchains for Advanced Manufacturing
Description of IPP Project	<p>This project aims to develop a standard guideline to build a secure private blockchain infrastructure for advanced manufacturing (AM). There are five goals for this project:</p> <ol style="list-style-type: none"> <li>1. To identify cyber attacks in advanced manufacturing.</li> <li>2. To build a private blockchain infrastructure for advanced manufacturing against the identified cyber attacks.</li> <li>3. To develop a standard guideline for algorithm structure for building infrastructures.</li> <li>4. To analyse/verify the proposed infrastructure.</li> <li>5. To develop analysis/verification standards to certify blockchains of advanced manufacturing.</li> </ol>
Requirements	<p>Knowledge of blockchain techniques.</p> <p>Experience on smart contract development.</p>
Duration of the project	4 years
Period of the project	08/2022 - 07/2026