

ROLE DOCUMENT - DIAGNOSTICS & FUNCTIONAL SAFETY		
REQUIREMENTS	Minimum Qualification	ME/MTech or BE/BTech with work experience in one or more of the following areas: Automotive diagnostics, electric vehicles, modeling and control of power converters and inverters, functional safety
	Technical Knowledge	<p>"Must have":</p> <ol style="list-style-type: none"> 1. Power converter and inverter modeling and simulation using MATLAB/Simulink 2. Familiarity with sensor/actuator diagnostics, diagnostic tools & equipment 3. Knowledge of OBD. OBD-II, OBD-III, UBS 4. Reliability, packaging and testing of electronic packages 5. Functional safety and testing, ISO 26262 <p>"Good to have":</p> <ol style="list-style-type: none"> 1. 1-2 year industry experience in one or more of the above areas
	Behavioral Competencies	Effective communicator, ability to coordinate and resolve conflicts, good team player
PURPOSE	<ol style="list-style-type: none"> 1. Develop, deploy and maintain WILP labs in the areas of Electric Vehicles, Automotive Diagnostics, Safety Critical Automotive Systems 2. Support student learning as per the course/ program requirement - requires scheduling and conducting labs, and evaluation 	
KEY RESPONSIBILITIES	AREAS OF RESPONSIBILITY (Key Activities)	
		Lab deployment
	1	Deploy labs to the WILP students as per the course requirement and assess the lab components on time under the guidance of course faculty
		Lab development
	2	<ol style="list-style-type: none"> 1. Lab development in emerging areas of automotive control systems - support the responsible faculty and the Experiential Learning Lead (ELL) from initiation, through proposal, procurement, commissioning, installation and development 2. Develop lab exercises under the guidance of course faculty 3. Support the creation of audio-visuals for marketing/training purposes
	Lab maintenance	
3	Work with the Experiential Learning Lead (ELL) and the respective lab faculty for maintenance of lab equipment, and upkeep of software licenses	
	Student support	
4	Prompt resolution of student queries related to labs	