Université Polytechnique Hauts-de-France

Name of the hosting institution in France	Université Polytechnique Hauts-de-France
Name of the host laboratory / research team	
	et d'Informatique industrielles et Humaines
Address	LAMIH UMR – CNRS 8201, Université Polytechnique Hauts-de-France
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Name of the supervisor	Pr. Michael Defoort
Function	Full Professor in Automatic Control
Email	Michael.Defoort@uphf.fr
Phone number	+33 3 27 51 14 94
Internship offer	
	and Implementation of a multi-robot system in hazardous industrial facilities
Proposed dates of the internship	Start 02/09/2024 End 20/12/2024
cientific and academic objectives of the inte	r nship: ed work consists of designing and implementing a navigation scheme for the cooperativ
of planning feasible path in a particular environ he agent cannot move. In the context of mu of agents in order to avoid collisions with ob	<u>planner for mobile robots</u> : A major part of the autonomy of agents holds on the capacit onment. In hazardous industrial facilities, the environment contains some areas in whic ulti-robot systems, it is not only necessary to ensure a coordinate navigation of the flee stacle but also to minimize the number of collision risk between robots. master student is to implement the developed planning scheme on a lab demonstrato
ndustrial partner	
oes the project involve a French industry pa	
lame	intner? No
Role of the industrial partner in the internship	
Aain contact	
mail	/
Aain contact industrial partner's branch in Au	
mail	
Australian partner	
s the internship project proposed in the fram	nework of an No
xisting collaboration with an Australian partr	
lame of the Australian partner institution	
ab/department/team involved in the	
collaboration	
Aain contact in the Australian partner institut	tion /
unction	
mail	/
Dutside of this ongoing collaboration, will stu	dents from other Australian [Select Yes/No]
iniversities be considered by the hosting insti	
Expected profile of applicant	
	Master
evel of study	
	Automation Engineering
evel of study Discipline Prerequisite knowledge, qualities and skills	
Discipline	Automation Engineering Applicants must have a background in automation. The candidate must be autonomous and have a rigorous scientific approach. English