

Research Internship

Development of an autonomous guiding interface for the command of MIR¹ robots



Context:

LINEACT¹ research laboratory, from Cesi² institute, is actually developing research works on theme of “Engineering and digital tools”. Two main applications are considered: “city of the future” and “industry of the future”.

In the context of the “industry of the future” application, research works that aim to develop autonomous robot platform allowing human and robots to work conjointly in a same work environment, are in progress. In this scope, LINEACT has acquired the MIR industrial robots for its site of Toulouse.

Mission:

MIR Robots are actually commanded using a constructor application. Goal of this work is to develop an interface allowing the autonomous guiding of the robots.

The interface must be ergonomic and easily used.

Resources: MIR robots,

Skills:

A 4th year student, with major in Computer Science, Embedded Development and/or Robotics is required.

Pre-requisites:

- Good skills in programming.
- Preferably experience with robot programming.
- Self-motivated, accurate and well organized student.
- Working language is English. Basic knowledge of French is advantageous.

Location: Cesi - LINEACT Toulouse

Duration: 2 months

Starting date: January 2018

Scientific supervisor: David Trimoulet

¹ <https://recherche.cesi.fr/>

² <http://www.cesi.fr/>