

Please send applications with the selected project in email subject to:

[contact@stage.diginov.tech](mailto:contact@stage.diginov.tech),

Please include a cover letter and references supporting your application.

**Project 1 Vision:**

**Objects detection and recognition using machine learning algorithm**

**Description:**

The candidates will explore the various algorithms used to detect and recognize physical objects in the real world.

• **Intern Responsibilities:**

- State of art of existing detection/recognition algorithms,
- Selection of the algorithm and hardware needed to accomplish the task
- Develop a sample project,

- **Skills Required:** #Vision Concepts #OpenCV #Python
- **Duration:** 1-2 months
- **Profile:** Various.

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**Project 2 ROS Applications Deployment:**

**Continuous integration platform for ROS applications**

**Description:**

The candidate will deploy the set of tools needed to build, test, package and deploy ROS applications

• **Intern Responsibilities:**

- Study of the ROS ecosystem,
- Selection of select the tools/software needed for the continuous integration platform,
- Deploy the solution to a server.

- **Skills Required:** # Linux administration # Bash scripting #Cmake # Deb packaging # Gitlab
- **Duration:** 1-2 months
- **Profile:** Engineer in Computer Science

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## Project 3 Integrated Actuator Mechanical Design:

### Mechanical design of integrated actuator

#### Description:

This project consists on the mechanical design of an integrated actuator including a Harmonic reducer, a brushless motor and angular position sensors.

- **Intern Responsibilities:**

- State of Art about existent mechanical solutions of integrated actuator,

- Design Study of the actuator parts,

- Selection of the actuator parts,

- Production of a CAD solution.

- **Skills Required:** #Solidworks #Design of Machine Elements #Power Train #Harmonic Gears #Angular Position Sensors

- **Duration:** 1-2 months

- **Profile:** Engineer in Mechanics/Mechatronics

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