## GSoC-2019 JdeRobot- Universidad Rey Juan Carlos JdeRobot Challenge

You will need to accomplish this challenge as part of your GSoC application.

JdeRobot is a software development suite for <u>robotics</u>, <u>home-automation</u> and <u>computer vision</u> applications. These domains include sensors (for instance, cameras), actuators, and intelligent software in between. It has been designed to help in programming such intelligent software. It is mainly written in C++ language and provides a distributed component-based programming environment where the application program is made up of a collection of several concurrent asynchronous components. Each component may run in different computers and they are connected using ICE communication middleware. Components may be written in C++, python, Java... and all of them interoperate through explicit ICE interfaces.s

This challenge is focused in compiling JdeRobot project and execute some of its components.

- 1. Download JdeRobot project from the repository
- 2. Compile the whole project.

CameraServer is a component that serves images through internet using webcam as source. CameraClient shows a UI with the image that cameraServer provides.

- 1. Execute cameraServer and configure it for serve images from usb/laptop webcam.
- 2. Execute cameraview and check how the video streaming is shown in the UI.

## Resources:

- https://github.com/JdeRobot/base
- <a href="http://jderobot.org/Manual-5">http://jderobot.org/Manual-5</a>

## Results:

- The shell/bash log where you download the git repository and compile the components.
- A screenshot (JPG,PNG) where cameraview and cameraserver are executing. Be sure that cameraview shows the image served by cameraserver,