



# Galaxy

[galaxy.uni-freiburg.de](http://galaxy.uni-freiburg.de)

[usegalaxy.org](http://usegalaxy.org)

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# GALAXY

## Team Members:

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## Project Type:

Control System Integration in Galaxy

## Open Data:

Generating Open Data sets - Microscopy

## Application Type:

Data Processing Pipeline

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# Use Case – *Automating Science*

## Automated Microscope

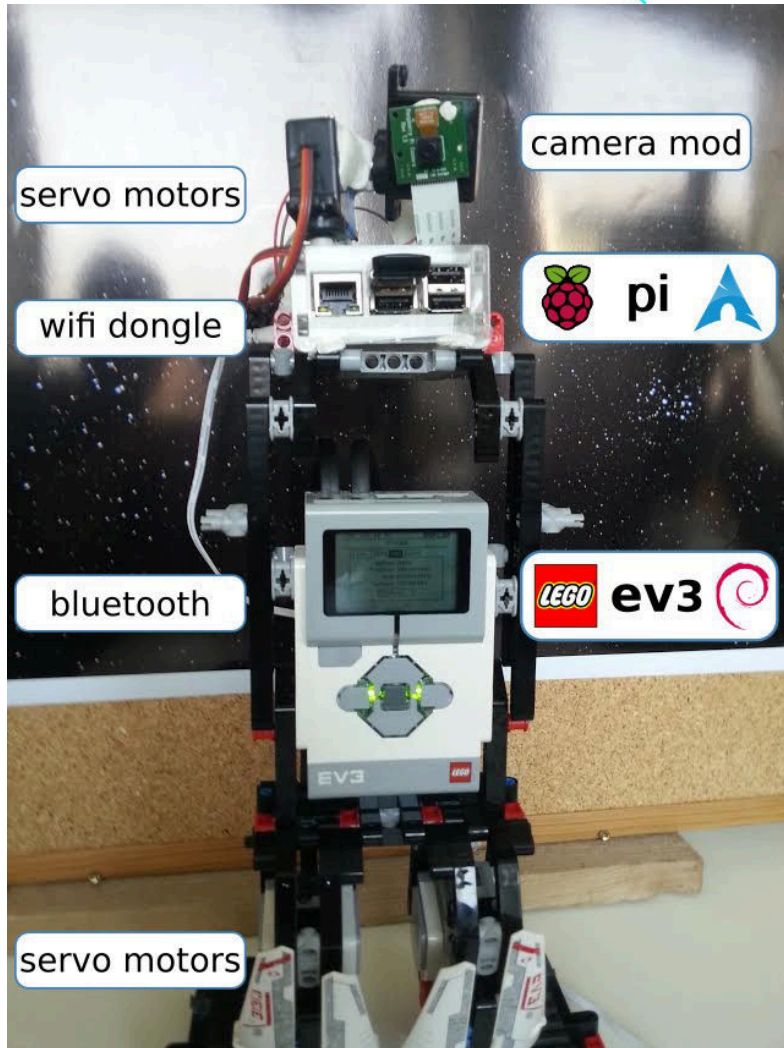
- take an image
- push this to galaxy, perform image processing on a cluster
- extract parameters for Microscope
- take a new image with parameters; REPEAT

## CleanLab – Automated Experiments

- for an environment dangerous to humans
- a robot's hands are cleaner than a (dirty) biologist's

*giving galaxy hands*

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## Meet Eve - our „Macroscope“

paramiko  
LibreOffice OpenCV  
python-ev3 Galaxy  
ev3dev  
Python  
servoblaster SSH  
GitHub trello Inkscape  
NumPy Debian GNU/Linux  
SciPy matplotlib  
scikit-image  
Arch Linux ARM



