# Weekly Progress - 21/4/2020

Full Operated MTBR

| Object Detection | Navigation | Interaction | Communication |
|---|---|---|---|

**Object Detection**
- Detection
- Classification

**Navigation**
- Stereo Matching
- Depth Image
- Local Mapping

**Interaction**
- Human Upper Body
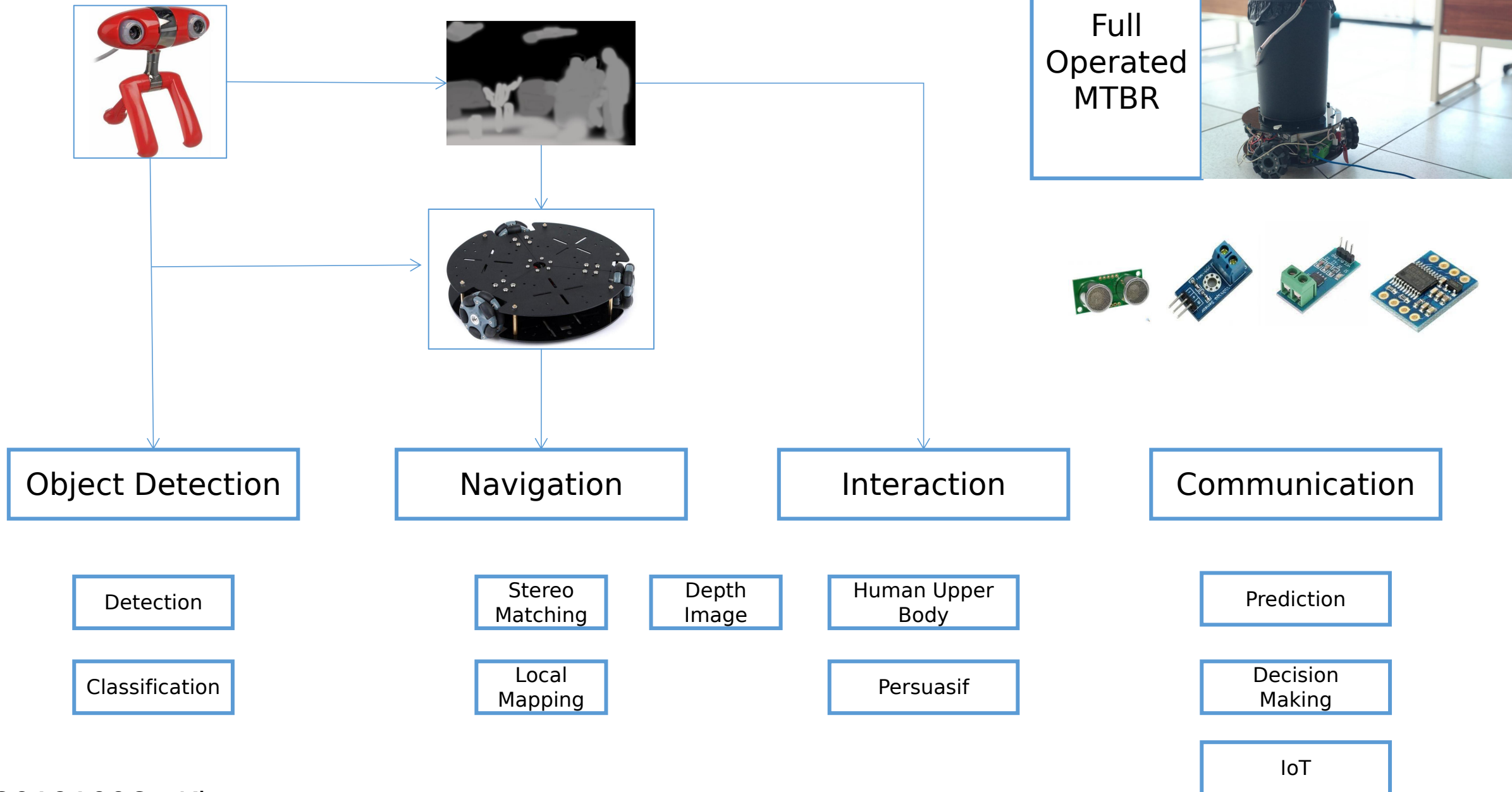- Persuasif

**Communication**
- Prediction
- Decision Making
- IoT

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# Already Done

- Installing ROS and QT Creator
- Access camera using ROS
- Create simple publisher subscriber (txt and img)
- Try rosserial to send data form arduino to PC
- Trash detection using Haar Cascade

program is uploaded in github
https://github.com/kisron86/atracbot

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# On going

- Convert irfan's program to ROS environment
- Trash Classification using SVM method
1. Exctract Feature using HOG and GLCM
2. Training SVM
3. Testing

Problem

1. Failed installation opencv 2.4.13 in Ubuntu 18.04

Solution

1. Clean install opencv 2.4.13 in ubuntu 18.04 with virtual machine

2. downgrade OS to ubuntu 16.04

# Next task

- Programming Trash Classification using SVM Method
- Prepare for international conference