


## PERSONAL INFORMATION

## Giorgio Castrogiovanni



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## PERSONAL STATEMENT

Student with extensive skills in electronics and mechanics.

## EDUCATION AND TRAINING

Archimede Technical Institute, Catania (Italy)

-English

-Electronics, TPSEE and automation

-Robotics

## WORK EXPERIENCE

- Summer work at various workshops.

- Repair of smartphones, PCs and electronic equipment.

## PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B1	B1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Good communication skills acquired at school during the illustration of the activities carried out in the laboratory as a tutor during Open Days.

-Good communication and interpersonal skills acquired during various robotics courses with "Lego Mindstorm" for middle school students.

Organisational / managerial skills

-good team leading skills acquired during the foreman experience in the last three years for robotics courses and related competitions (Robocup rescue line).

-good organizational and management skills acquired during open days and mini-robotics courses held at school for middle school students.

Job-related skills

-Excellent skills in the field of mechanics and in particular: steel TIG welding , stainless steel TIG welding and aluminum TIG welding ; realization of mechanical parts; extensive knowledge on two-stroke and four-stroke engines; calculation, design and construction of two-stroke engines expansion exhausts.

-Excellent skills in the motor field and tuning of two-stroke and four-stroke engines; in the case of the

two times, I dealt with 100cc kart engines, the tuning of racing scooters engines and off-road motorcycles, and the development of expansion exhausts calculated for these engines. In the four-stroke field, I have only worked on the transformation of a Fiat 899 "100" series engine, from naturally aspirated to turbo-charged to a constant pressure of 0.8 bar and 1 bar overboost working primarily on the compression ratio, Geometry of the combustion chamber, sensors and ECU, and secondly on the geometry of the pipes, manifolds, exhaust and intercooler with the relative pipes (manifolds, exhaust and the various pipes were entirely handcrafted).

- excellent professional skills in straightening and car painting as a result of work experience as a body shop mechanic.

- extensive knowledge of the field of robotics and microcontroller programming; I competed as a foreman in two Robocup robotics races in 2017, 2018 and this year I will participate in the 2019 edition again as team leader; The strong point of the 2019 robot is a sensor board I made, able to follow the black line and recognize the green color.

**Related document(s):** Modifying Minarelli orizzontale engine, Modifying Minarelli orizzontale engine, Handcrafted two stroke exhaust, Handcrafted two stroke exhaust, Handcrafted two stroke exhaust, Handcrafted two stroke exhaust, Malossi replica ported cylinder, Handcrafted throttle body cover, 899cc Fiat engine turbo-charged, 899cc Fiat engine turbo-charged, Turbo return line flange, Turbo return line flange, TIG aluminium weld, Robot, Robot, Handcrafted muffler, Handcrafted muffler

## Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Proficient user	Proficient user

Digital skills - Self-assessment grid

## Driving licence

B

**Related document(s):** Driving Licence

## ANNEXES

- Modifying Minarelli orizzontale engine
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- Handcrafted two stroke exhaust
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- Handcrafted two stroke exhaust
- Malossi replica ported cylinder
- Handcrafted throttle body cover
- 899cc Fiat engine turbo-charged
- 899cc Fiat engine turbo-charged
- Turbo return line flange
- Turbo return line flange
- TIG aluminium weld
- Robot
- Robot
- Robot sensor board
- Driving Licence
- Handcrafted muffler
- Handcrafted muffler

## Modifying Minarelli orizzontale engine

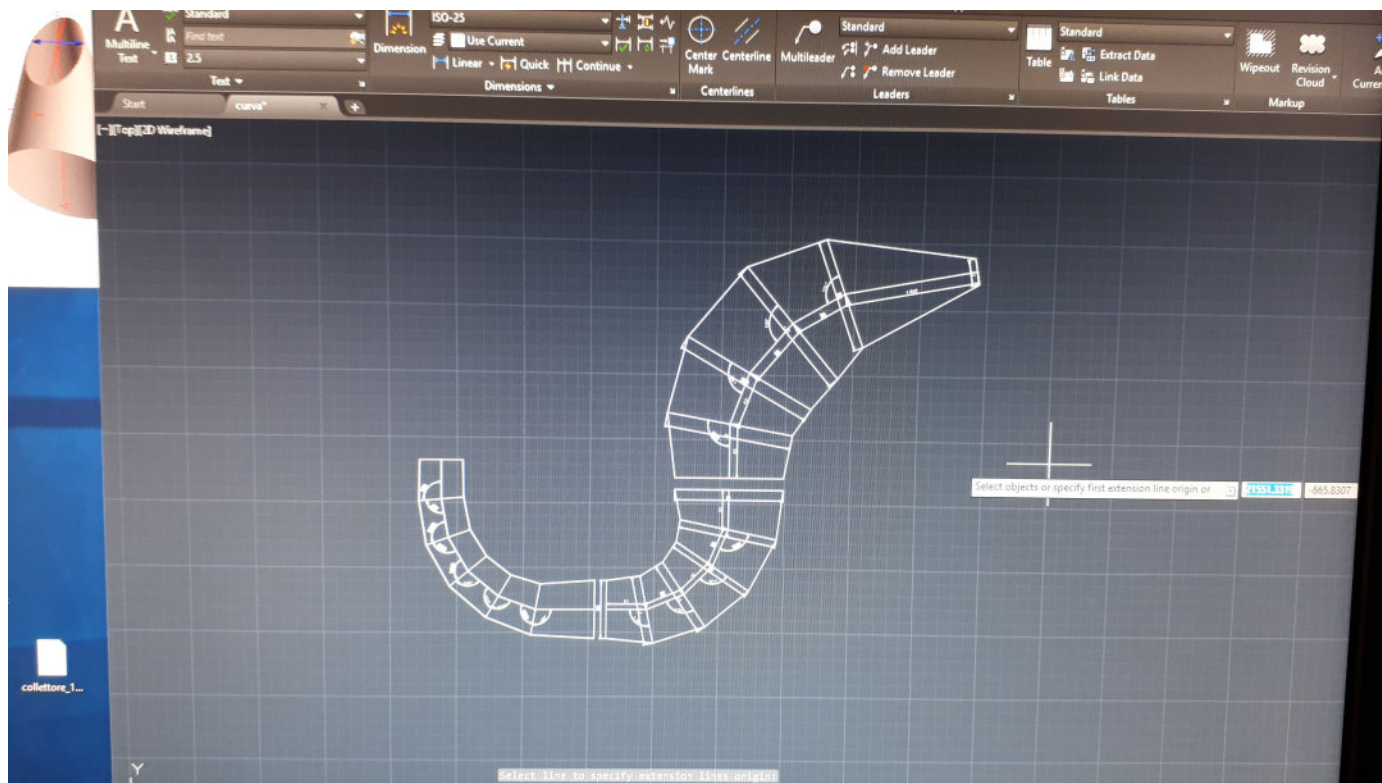


## Modifying Minarelli orizzontale engine

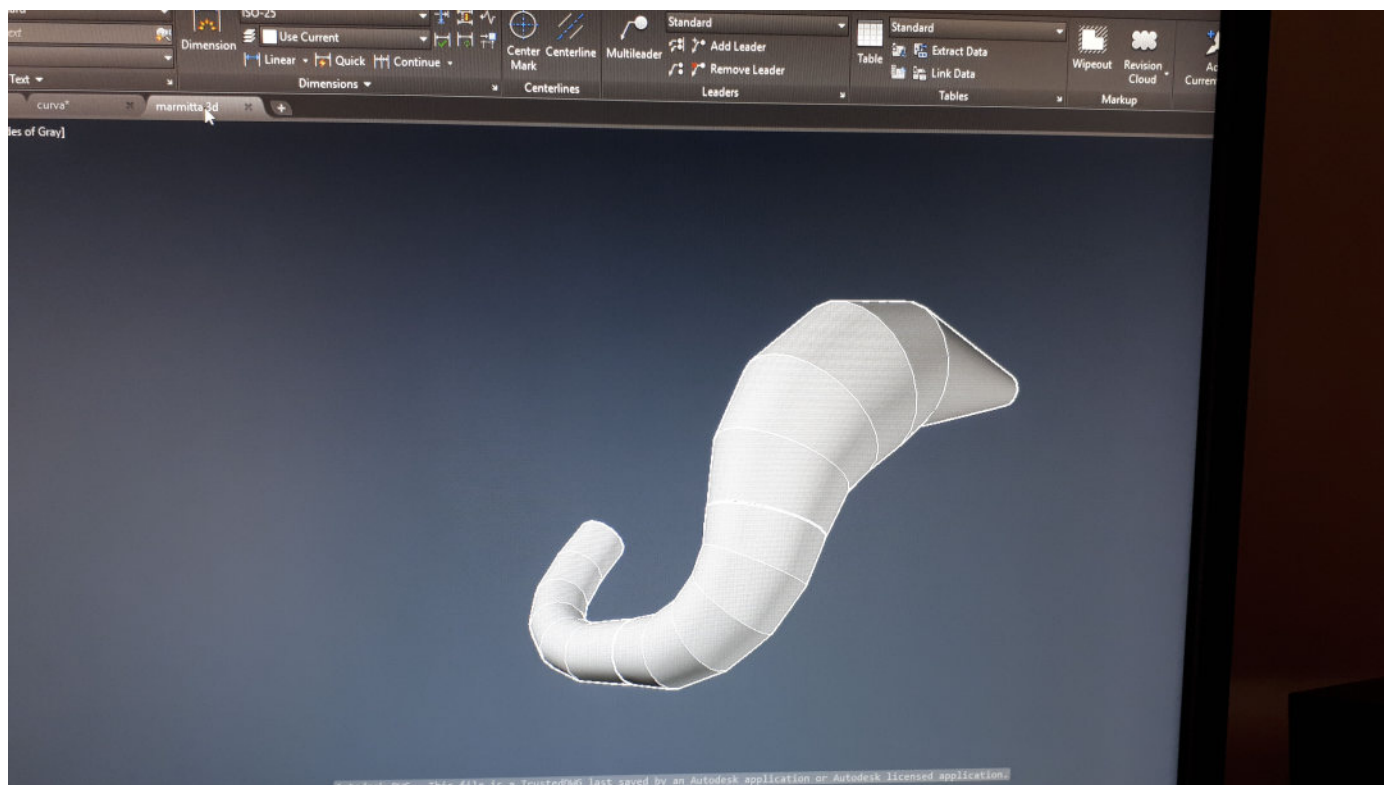




## Handcrafted two stroke exhaust



## Handcrafted two stroke exhaust



## Handcrafted two stroke exhaust



## Handcrafted two stroke exhaust [🔗](#)





## Malossi replica ported cylinder

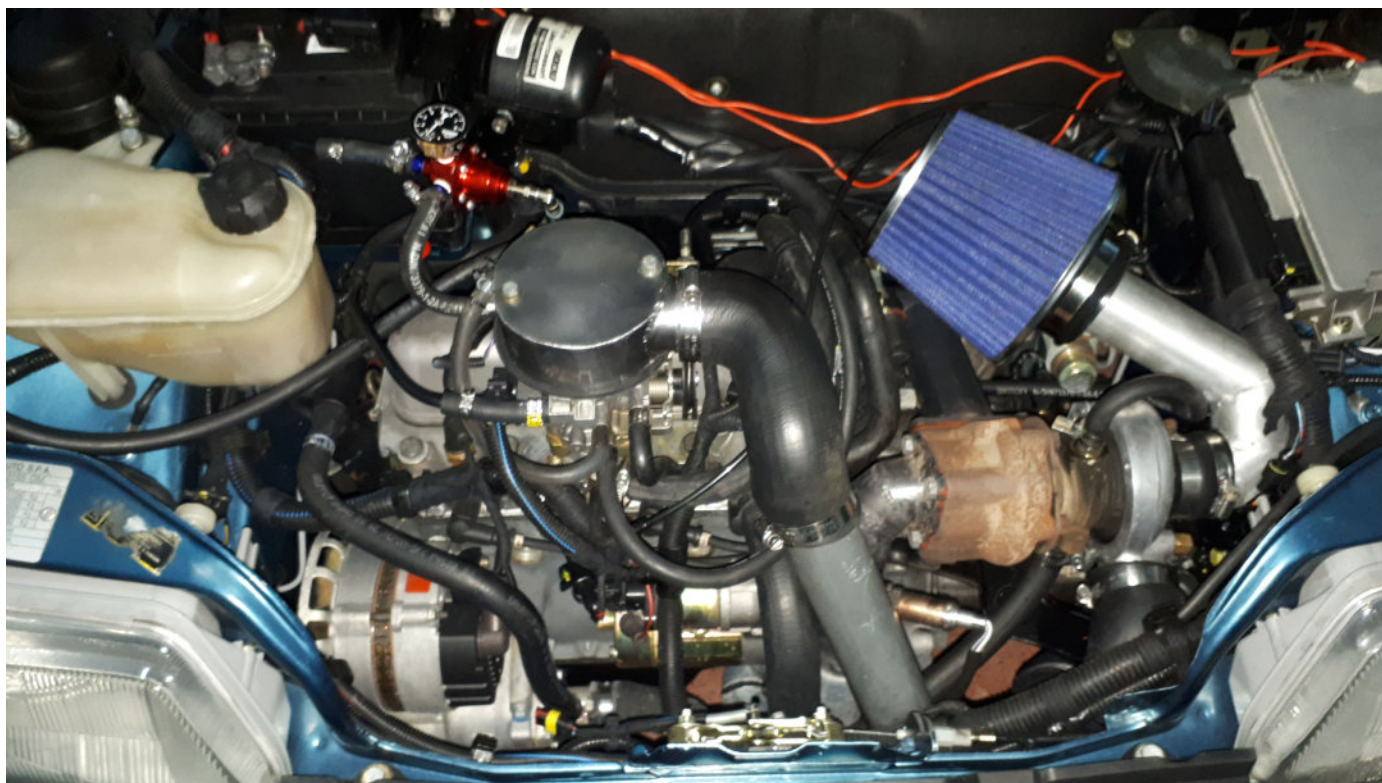




## Handcrafted throttle body cover



## 899cc Fiat engine turbo-charged



## 899cc Fiat engine turbo-charged





## Turbo return line flange



## Turbo return line flange

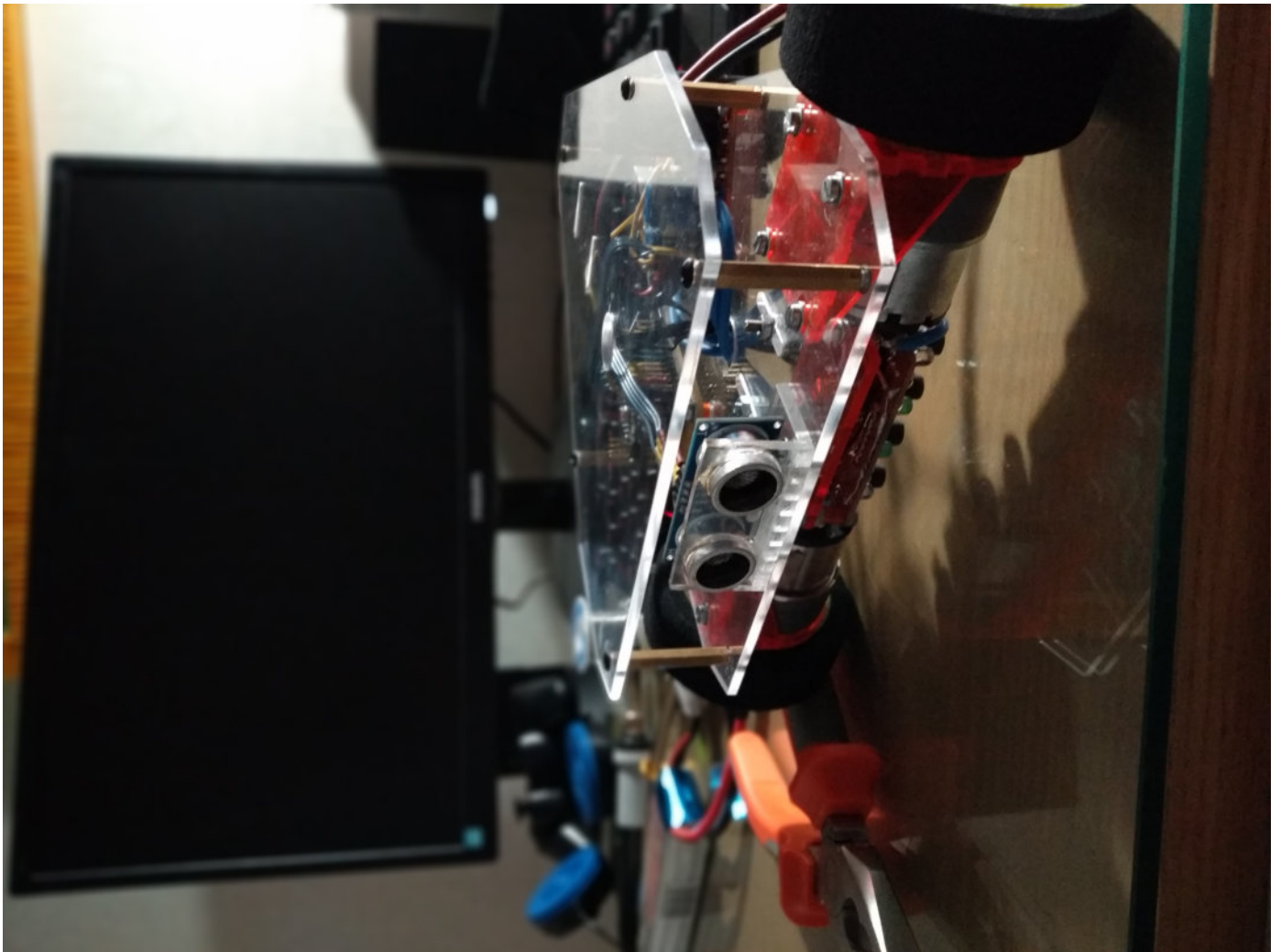




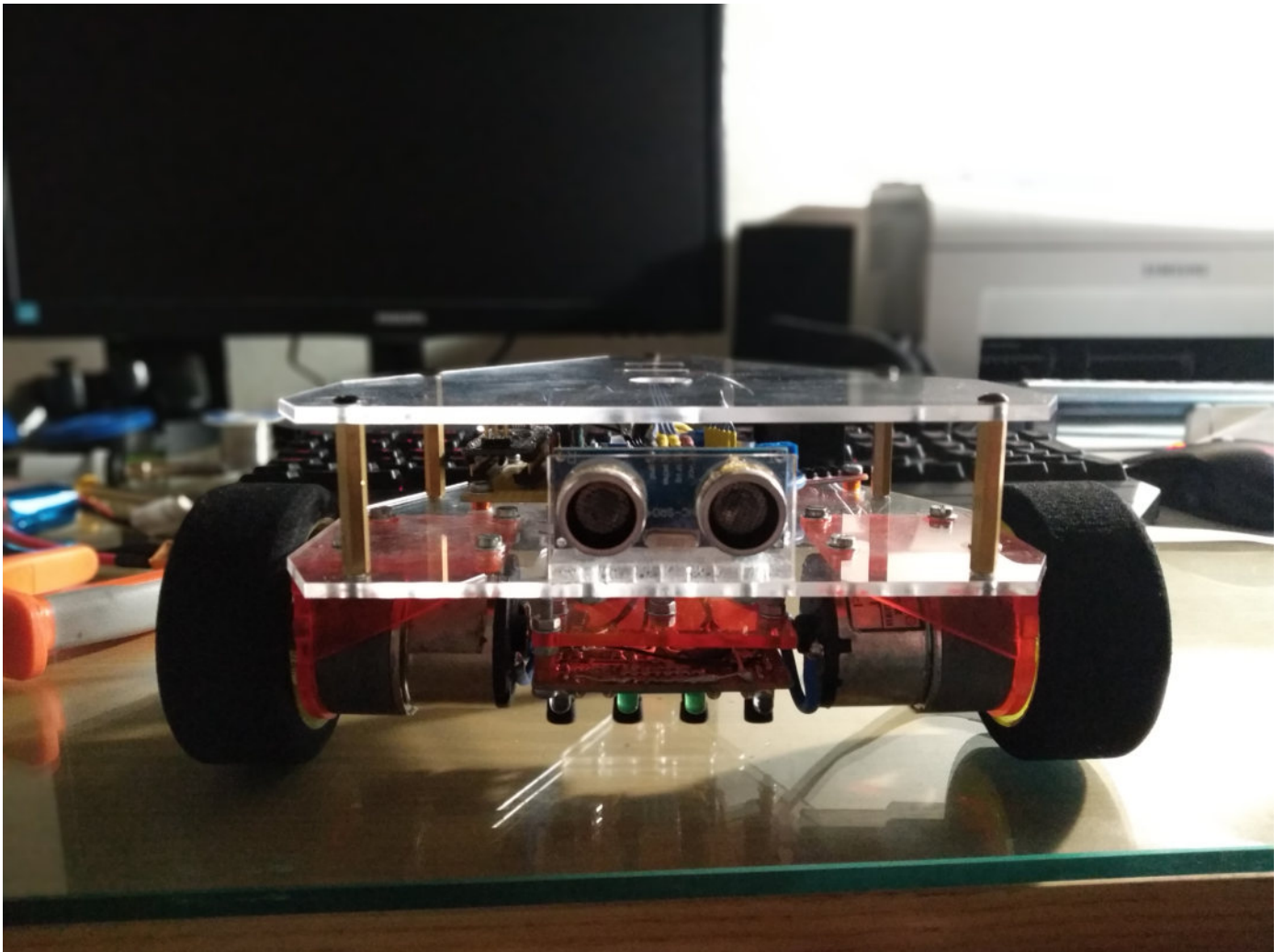
## TIG aluminium weld



## Robot

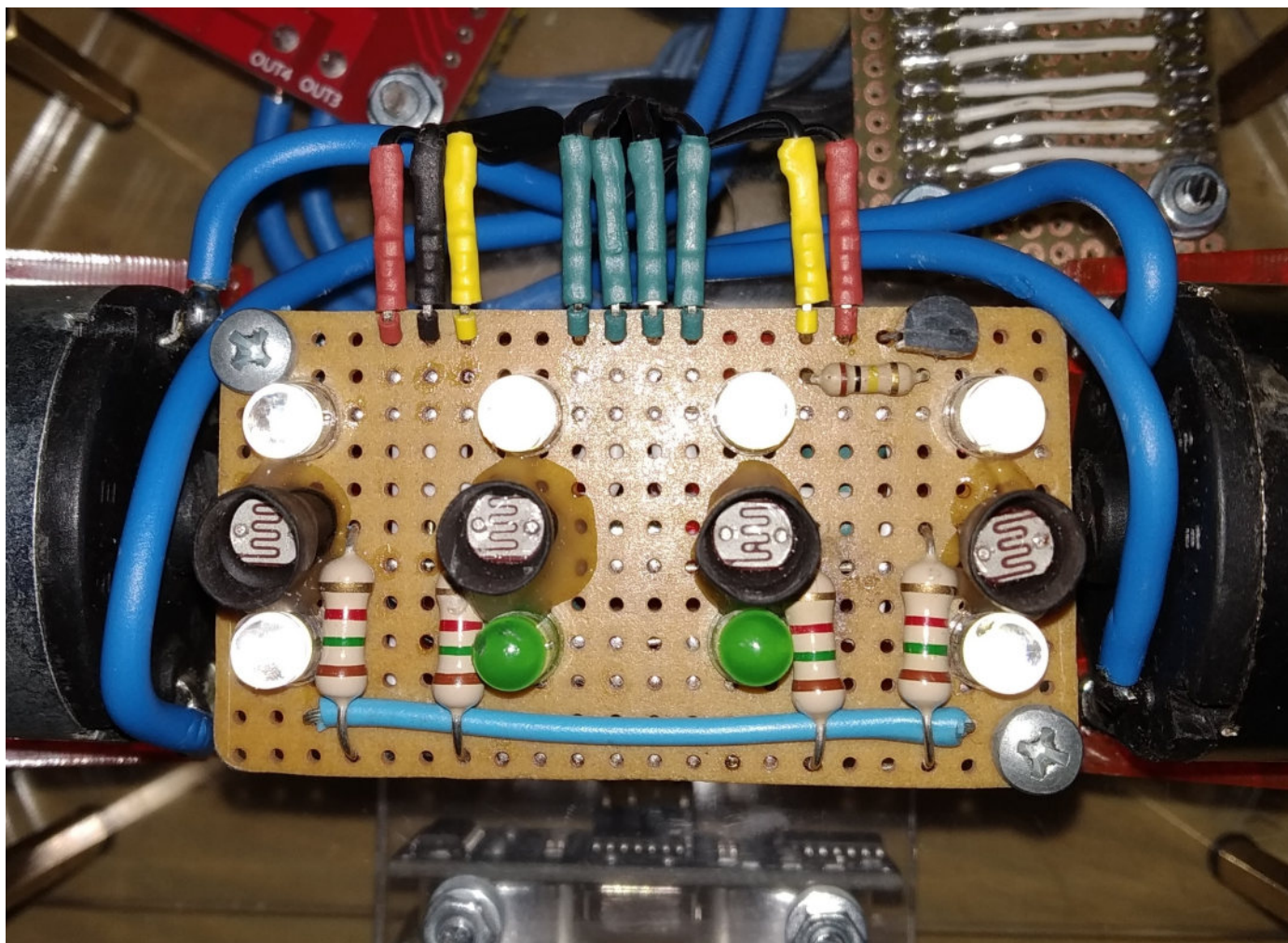


## Robot





## Robot sensor board



## Driving Licence





## Handcrafted muffler



## Handcrafted muffler

