

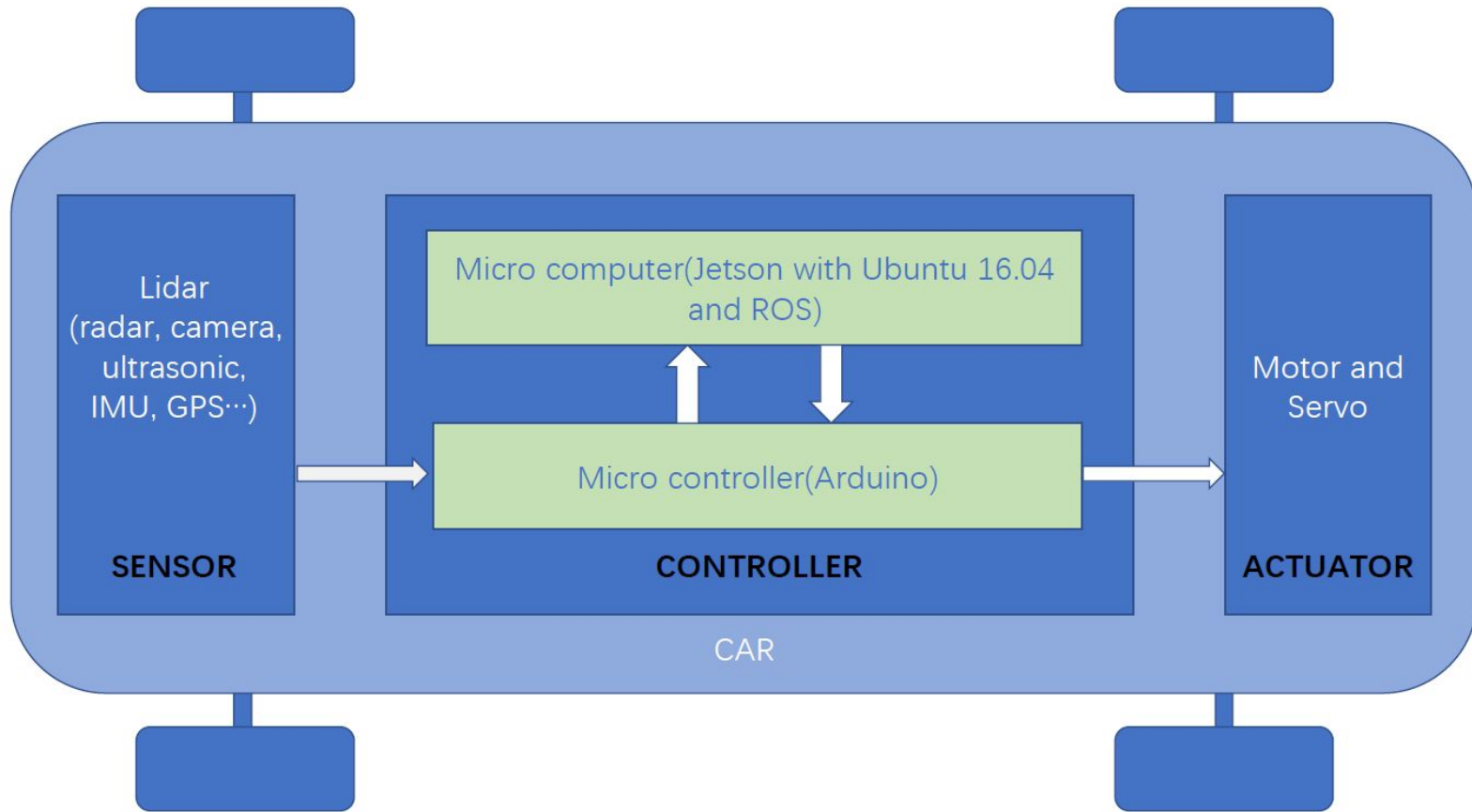
Robot-SM

Workshop 20 November

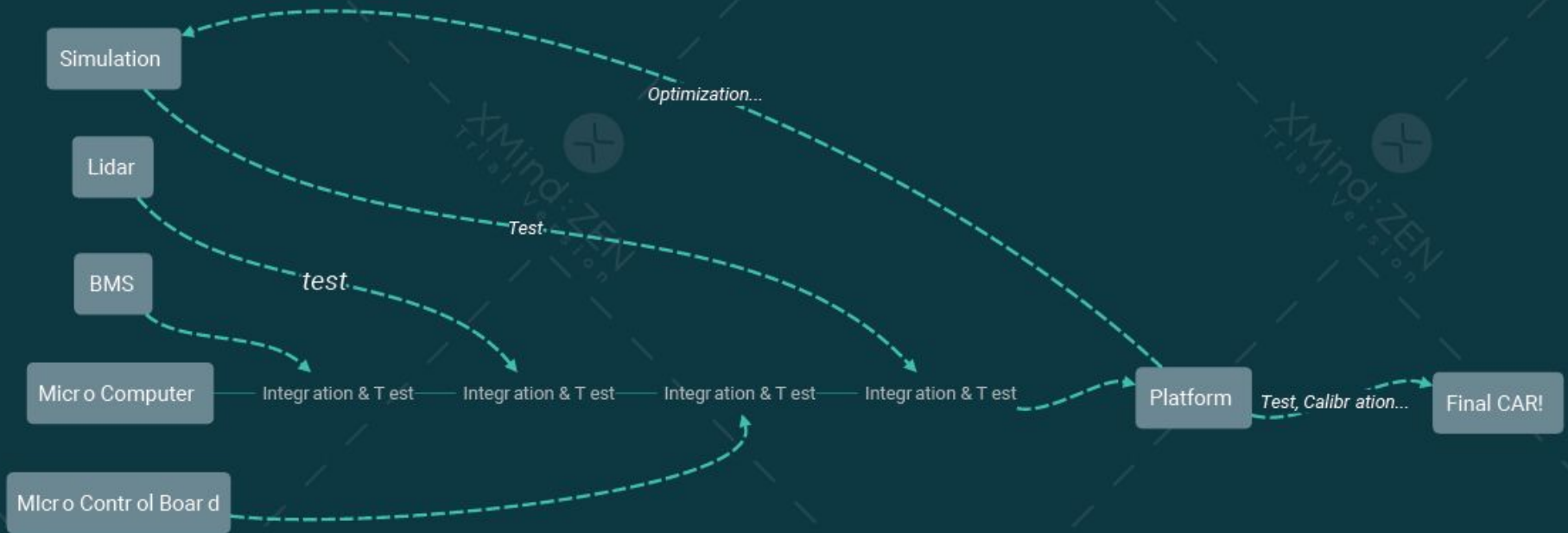
TOP 2 BEST EMPLOYER IN SWEDEN



TOP 2
LARGE EMPLOYERS



Developing flow



Simulations (6-8 persons)

We have a new algorithm which can make the car go forward on the track and avoid obstacles.

Simulation demo comes at the end of the presentation...

- Meet every week (If we are ready for what to do).
- Implementation of algorithms.
- Setting up simulation environment (In Gazebo), at least 3 persons are needed to focus on this.
- Need computer with Ubuntu 16.04 and ROS Kinetic.

Lidar (2 persons)

The Lidar is working.

- Investigate where to buy our own Lidar.
- Investigate the data property in ROS environment.
- Filtering might be an option in the future if we have spare time.

Jetson (2 persons)

Jetson can be turned on but not run for longer time, it might have gotten overheated.

- Firstly, investigate if Jetson is needed
- If Jetson is needed, Investigate how the problem can be fixed
- Set up the environment (ROS, dependencies...)
- Close cooperation with the BMS team

Platform (2 persons)

Prototype No.1 made of glue and bbq-sticks.

- Investigate if the design is a good option.
 - Make a 3D-model for future 3D-printing.
-
- Photograph the car for documentation and PR purposes

Battery management system (2 persons)

- New group
- Preferably persons with experience in BMS
- Power supply and management for Jetson, Arduino, motors and servos.

Competition day 25th of April, SPONSOR strategy

- Taskforce of 2 persons (working 30min)
- What's the best SPONSOR strategy?
 - Maximize exposure
 - Minimize cost
 - How you planned to attend?

Sponsra Robot-SM 2020

Som sponsor till Robot-SM får ditt företag exponering inför och under tävlingarna!

Exponeringsplats	Brons (7 000 kr)	Silver (14 000 kr)	Guld (20 000 kr)
Er logotyp på en stor banderoll med övriga sponsorer. Sätts upp under Robot-SM och efteråt kommer sitta på väggen i CRF:s lokal resten av året.	x	x	x
Hemsidan chalmersrobotics.se	x	x	x
Affischen inför tävlingen	x	x	x
Tryck på funktionärströjor	x	x	x
På linjeföljarplanen		x	x
Kring folktraceplanen		x	x
Kring sumoplanen		x	x
På deltagardiplom		x	x
Informationssystem under tävlingen		x	x
Monterplats på Robot-SM			x

Möjlighet till ytterligare exponering (specialsydda paket):

- Sponsra med tävlingspriser! Hör av er om ni har någon bra idé.
- Har ni ett annat intressant sätt att bidra så är det bara att höra av sig.
- Delta på Robot-SM med ett robotlag för att bidra till tävlingen
- Lunchföreläsning innan

Bra att veta

För att CRF skall ha nog med tid att trycka upp affischer, tröjor till funktionärer, diplom osv. behöver sponsoravtalet vara signerat senast 2020-03-25 (eventet hålls den 2020-04-25).

Information och kontakt

Mer information om Chalmers Robotförening och Robot-SM finns på www.chalmersrobotics.se/robot-sm.
Ni kontaktar oss enklast via robot-sm@chalmersrobotics.se.

Save the date

- Competition day, 25 of April
- Next Workshop, 19 of December

Discussion

- According to the experience, 10+ hours per person per week are needed to complete the project with good quality.
- However, this seems impossible.
- Suggestion: encourage to work some time per week, the more the better, in order to meet the deadline.

Questions?

Today's Workshop: Six groups

- Simulations (6-8 persons)
- Lidar (2 persons)
- Jetson (2 persons)
- Platform (2 persons)
- Battery management system (2 persons, preferably with experience)
- SPONSOR strategy (2 persons)

Write a diary of the group's progress

Meet at Fikatungan 19.40 to summarize the workshop

Mentimeter

- menti.com
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