

Meeting 2

dinsdag 9 februari 2021 10:21

Remarks previous SSA's

- Gantt chart is included in Trello
- We do not design an engine
- All requirements should be measurable
- RPC is not necessary for report
Maybe research questions are a better way to frame it.
- Do not think in RPC's, think in goals

Presentation

- Missing structure
- Lack of enthusiasm
- Good visual aids
- Feedback comes after meeting

Model and script:

- Variables and equations are mostly defined
- QLVH variable needs to be defined (stoichiometry and converting units of enthalpies)
- Stoichiometric ratio, how?
- Keep theoretical model and data analysis separate
- Do not spend hours on the carburator
- Keep simple at first and expand from there

Experiment:

- Experiment 1: measurements
- Experiment 2:
 - T-p/V-p diagram using pulse sensor
 - Compute work and efficiency
 - Behaviour for different fuels
 - Use pulse sensors for torque? or just pressure? Volume?
 - Angle sensor

Report:

- Maybe mention the carburator shortly

SSA's:

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| • Research question + (preliminary) introduction | | | | | (Lars) |
| • Research carburator (keep short and small) | | | | | (Lars) |
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| • Research fuel | | | | | | | (Alexandra) |
| ○ Look at Lars' research | | | | | | | (Alexandra) |
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| • Data analysis | | | | | | | |
| ○ Use given data for p-V diagram | | | | | | | (Mihai-Dragos + Vito) |
| ○ Compute work from this diagram | | | | | | | (Mihai-Dragos + Vito) |
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| • Theoretical model | | | | | | | (Dolf + Thomas) |
| ○ Q_LVH variable | | | | | | | (Dolf + Thomas) |
| ○ c_p and c_v values for fuels | | | | | | | (Dolf + Thomas) |
| ○ Does it correspond to Joey's prior research? | | | | | | | (Joey) |
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| • What sensors are we actually using and how do they work? | | | | | | | (Joey + Mats) |
| ○ Drift? | | | | | | | (Joey + Mats) |
| ○ What do they measure? | | | | | | | (Joey + Mats) |
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| • Present next time | | | | | | | (Vito) |
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| • Who does the experiment | | | | | | | (Mihai + Dolf; 22FEB 15:00) |
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