



UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH

Escola Superior d'Enginyeries Industrial,
Aeroespacial i Audiovisual de Terrassa

Design of a lightweight rover with adapted suspension for lunar exploration

Document:
Appendix

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BACHELOR FINAL THESIS

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A | Appendix

The following appendix sections will show the rover's model plans and its views on *Solidworks*.

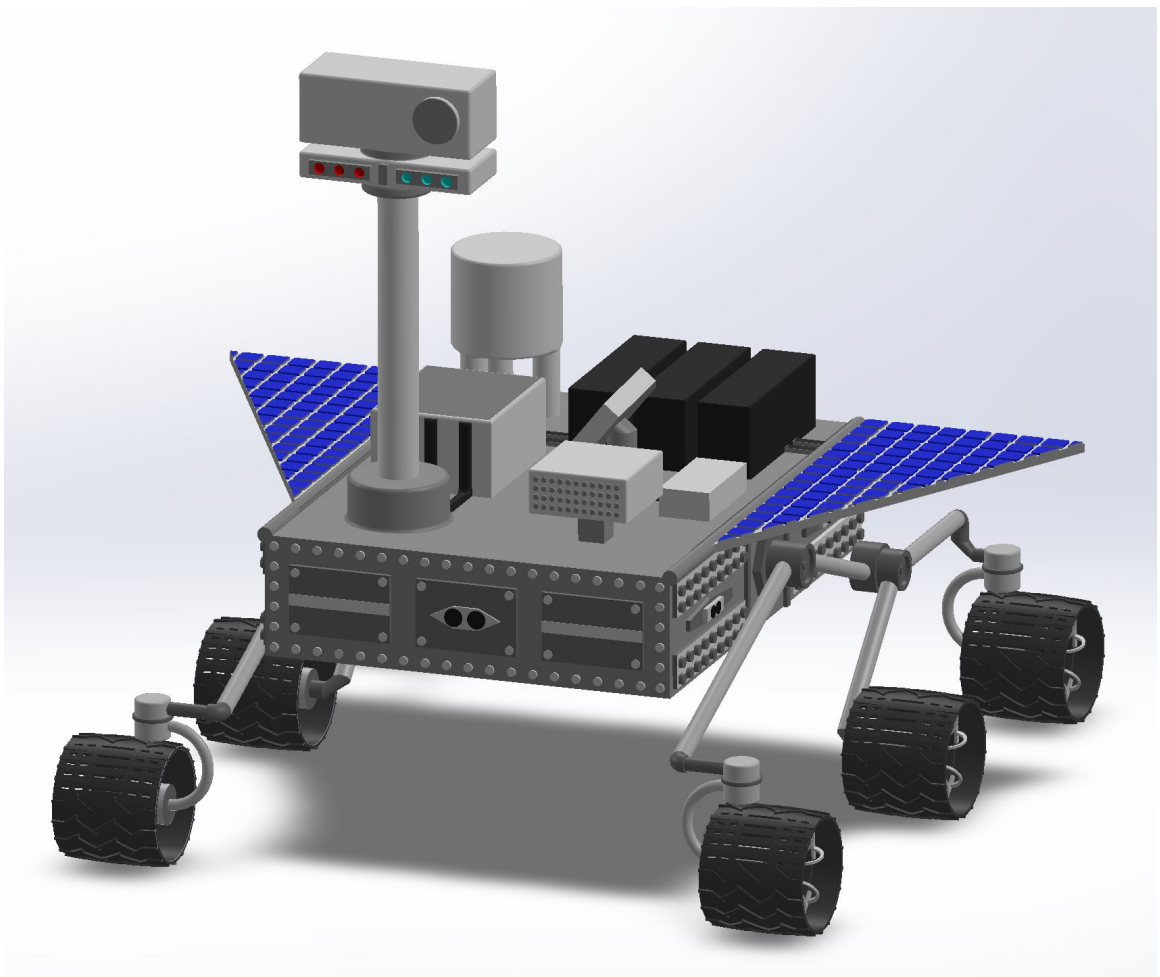
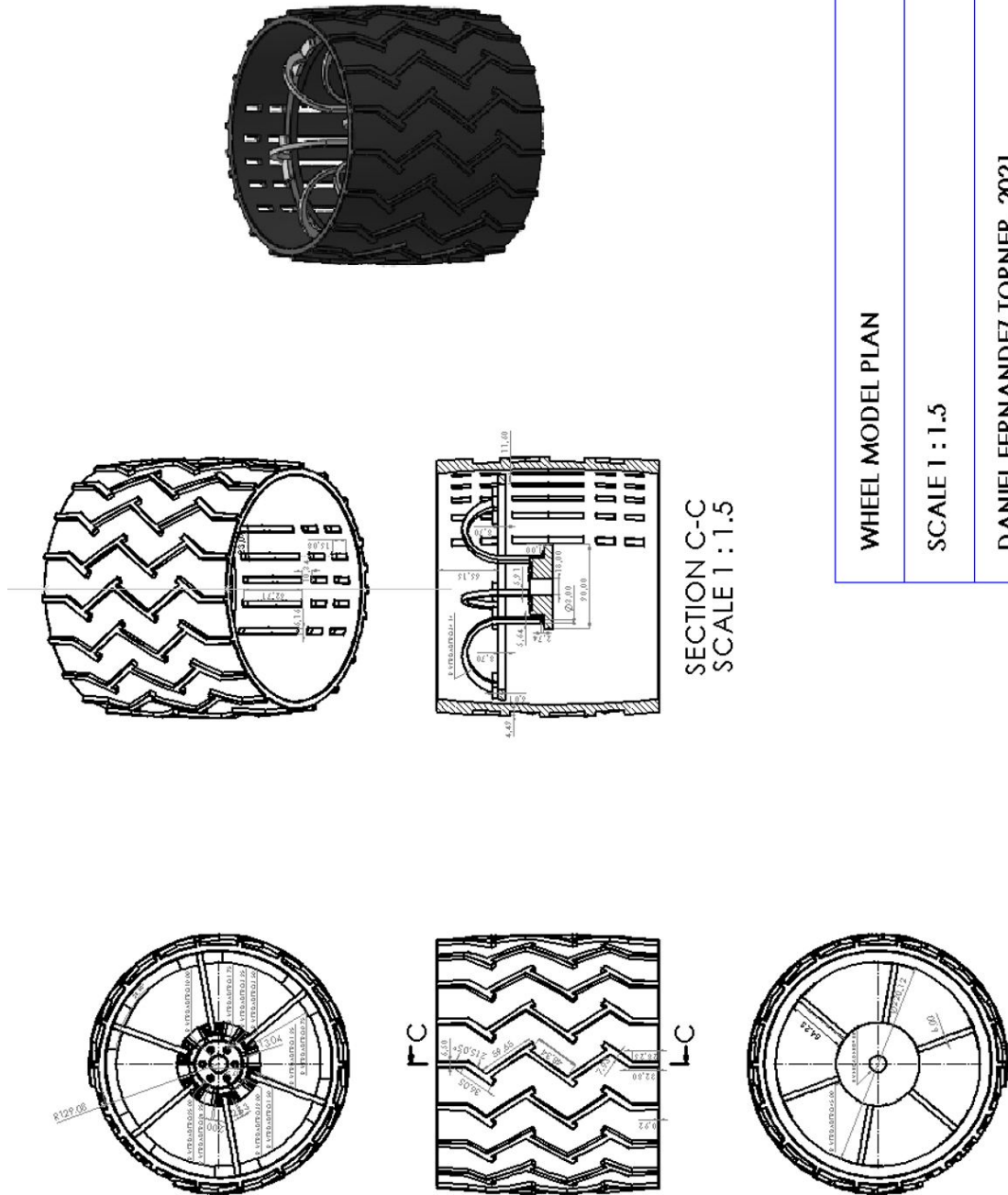


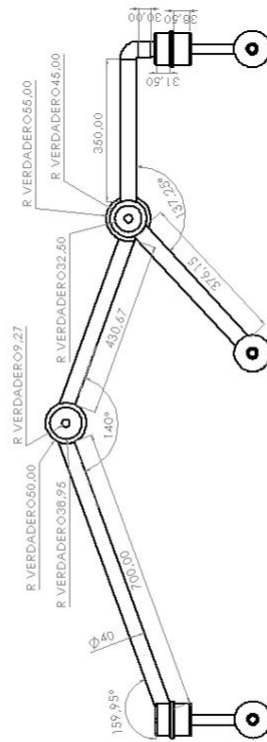
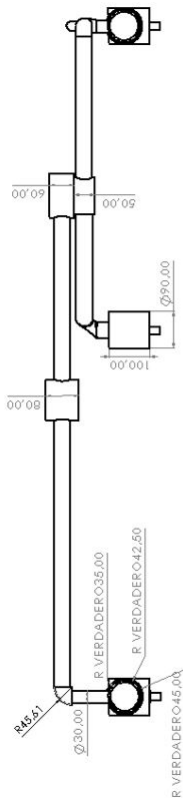
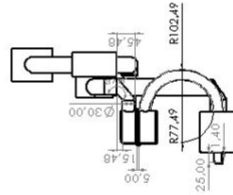
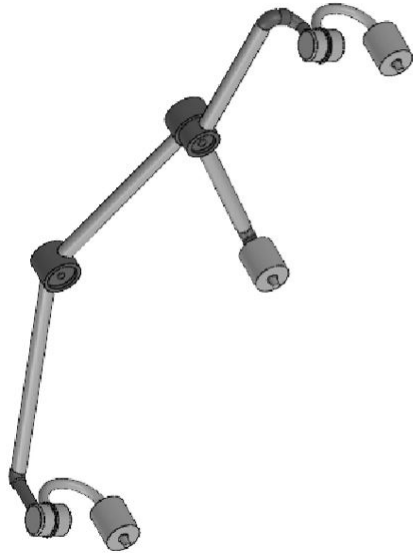
Figure A.1: Rover's concept design. Own source via *SolidWorks*.

A.2 Wheel model plan



| |
|---|
| WHEEL MODEL PLAN |
| SCALE 1:1.5 |
| DANIEL FERNANDEZ TORNER, 2021 |
| TFG, UNIVERSITAT POLITÈCNICA DE CATALUNYA |

A.3 Suspension model plan



SUSPENSION MODEL PLAN

SCALE 1 : 3.5

DANIEL FERNANDEZ TORNER, 2021

TFG, UNIVERSITAT POLITÈCNICA DE CATALUNYA

A.4 Main body design gallery

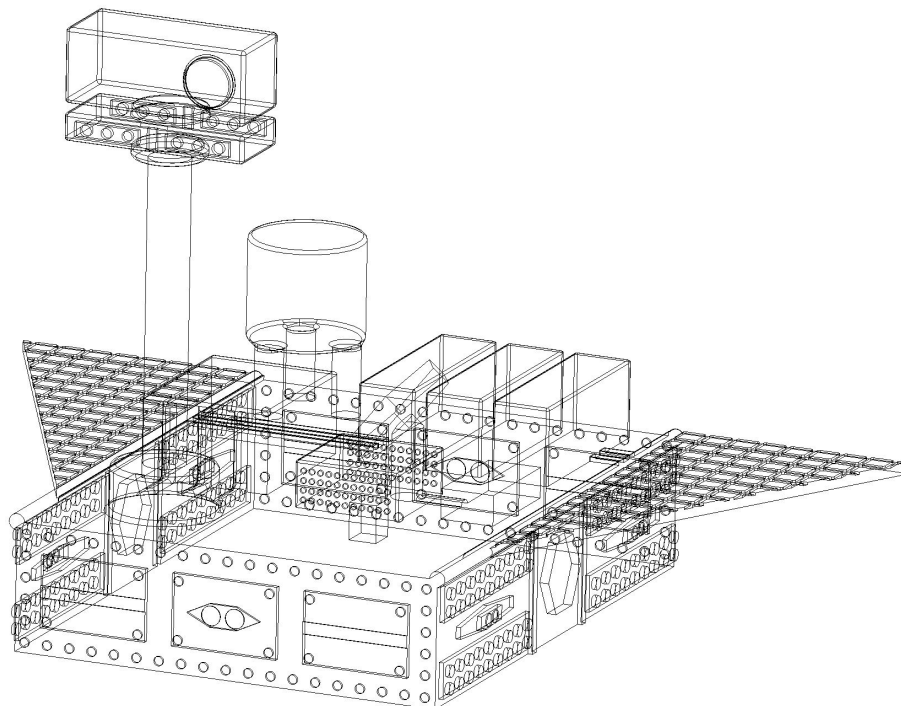


Figure A.2: Main body design concept, view 1. Own source via *SolidWorks*.

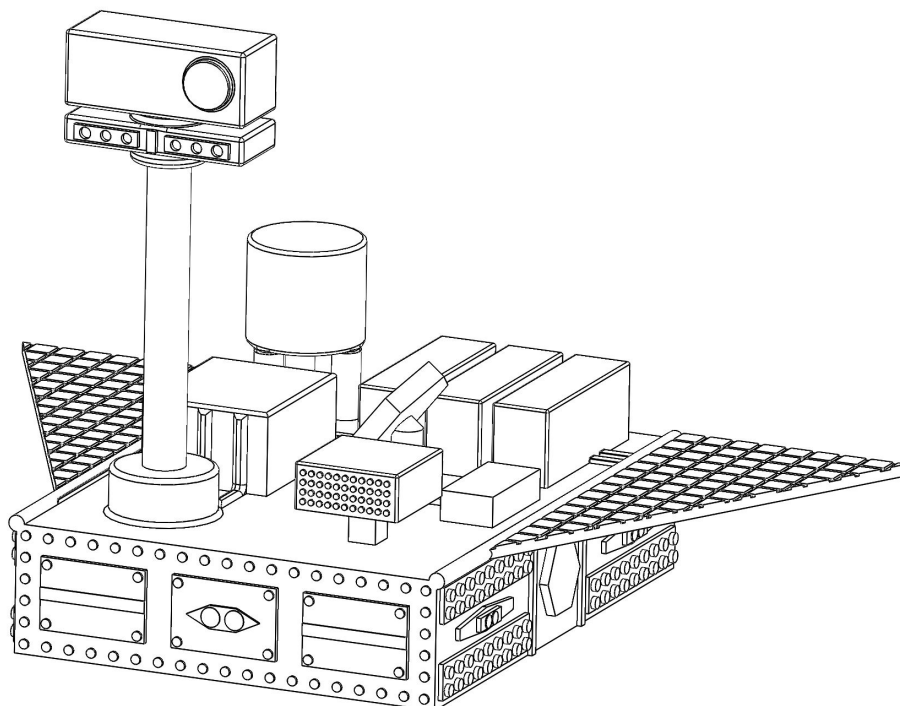


Figure A.3: Main body design concept, view 2. Own source via *SolidWorks*.

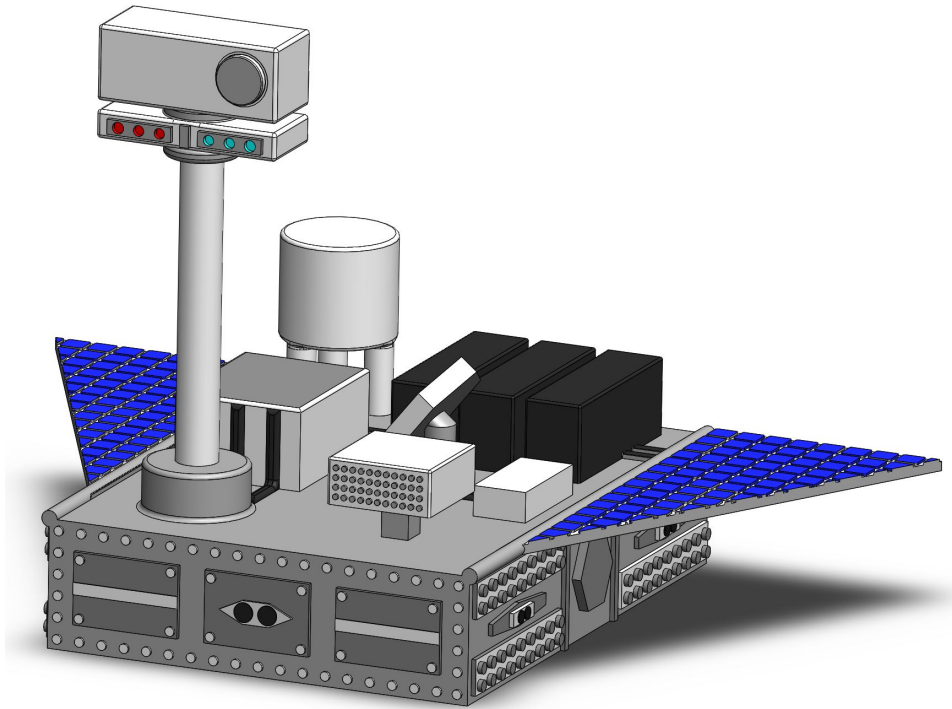


Figure A.4: Main body design concept, view 3. Own source via *SolidWorks*.

A.5 Wheel design gallery

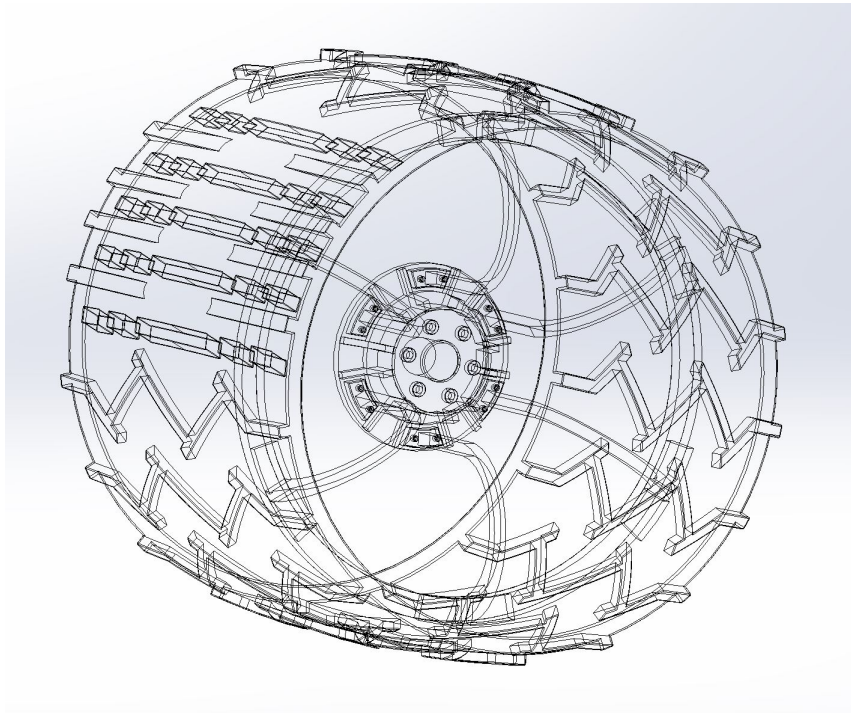


Figure A.5: Wheel model concept design, view 1. Own source via *SolidWorks*.

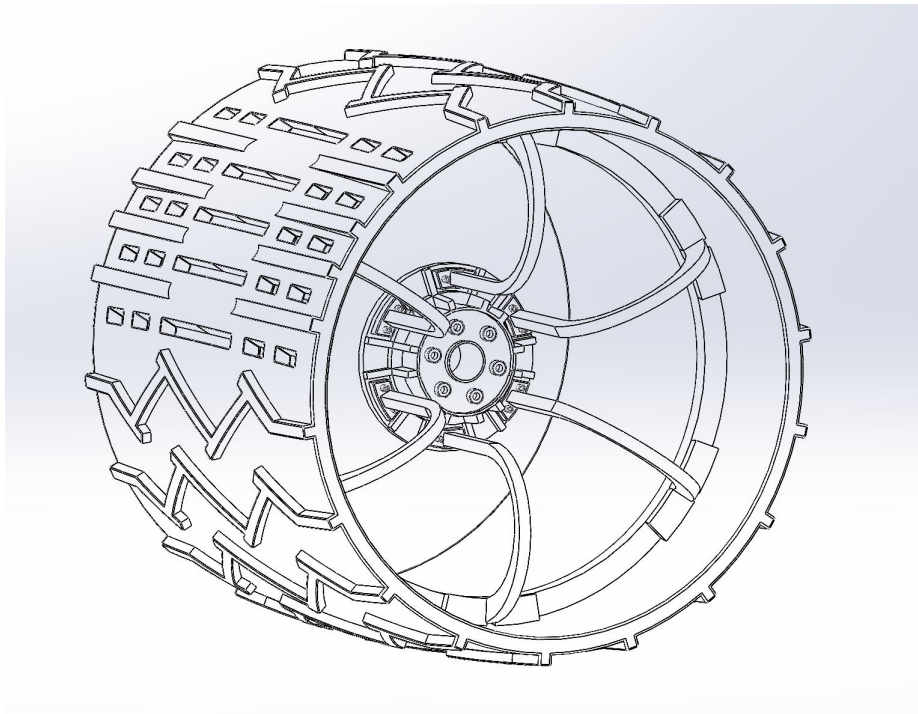


Figure A.6: Wheel model concept design, view 2. Own source via *SolidWorks*.

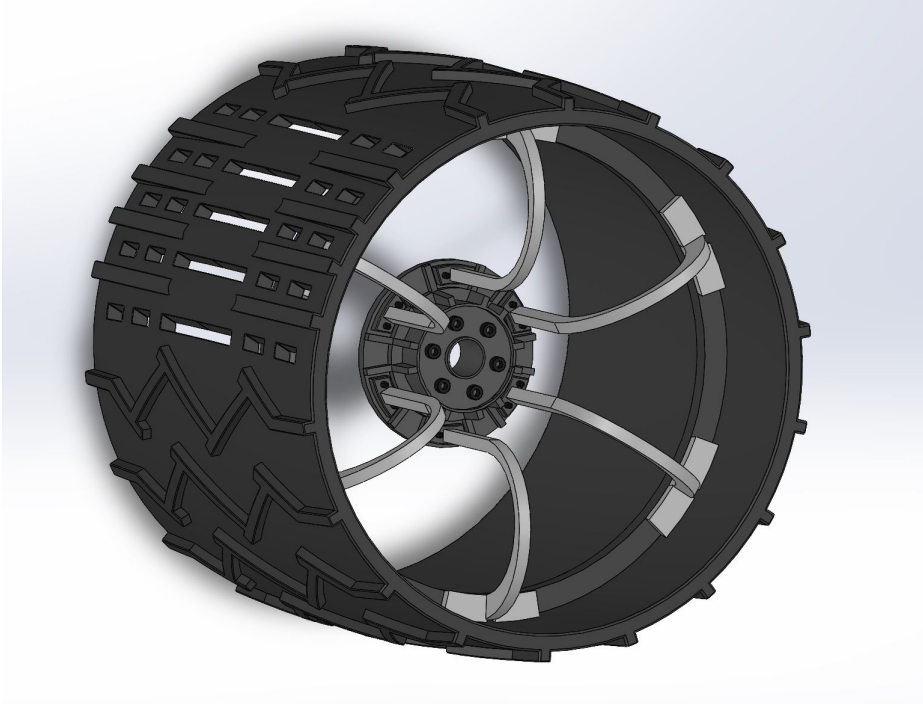


Figure A.7: Wheel model concept design, view 3. Own source via *SolidWorks*.

A.6 Suspension design gallery

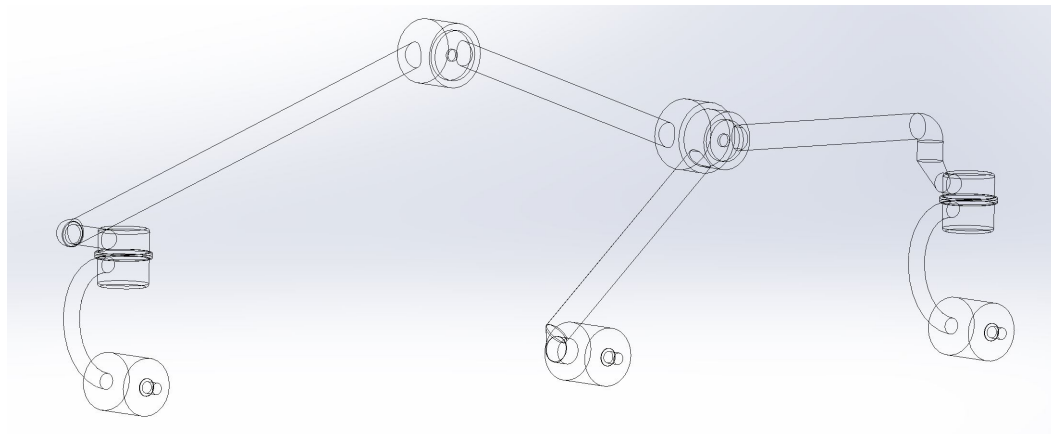


Figure A.8: Suspension model concept design, view 1. Own source via *SolidWorks*.

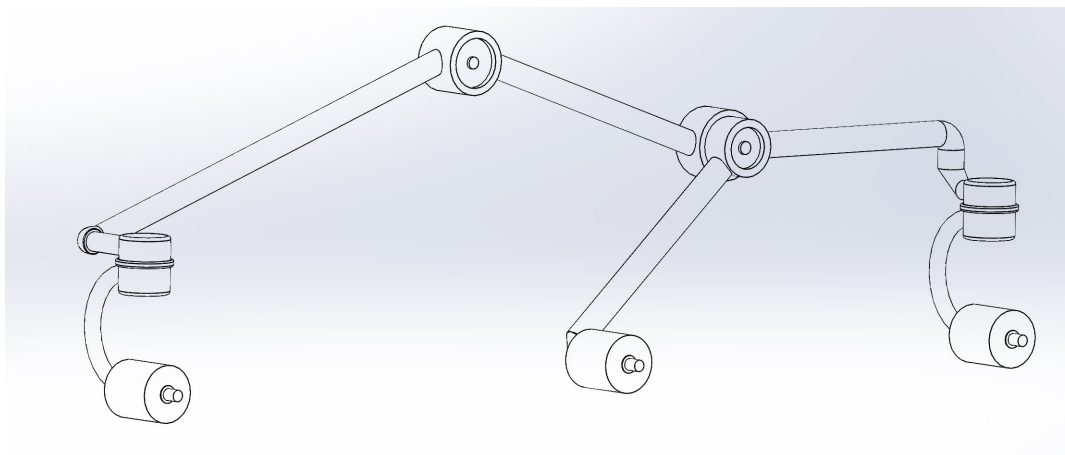


Figure A.9: Suspension model concept design, view 2. Own source via *SolidWorks*.

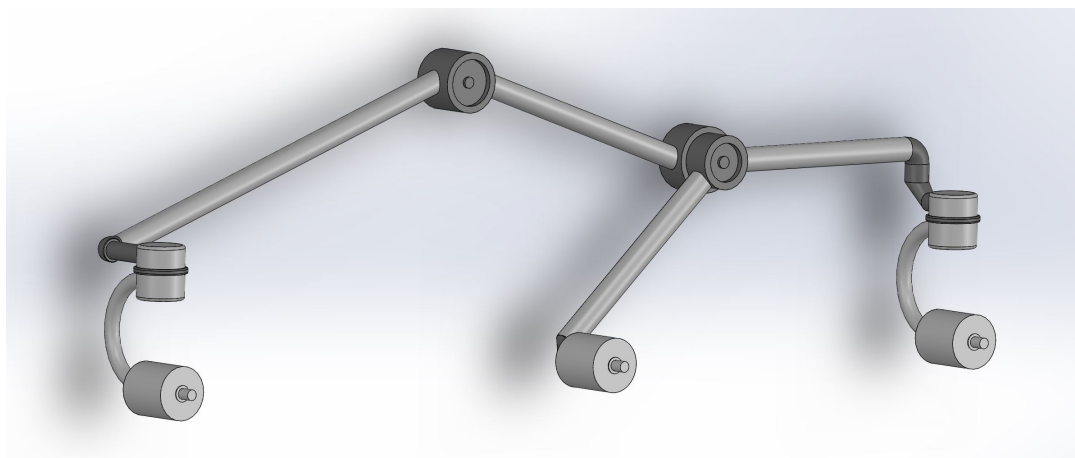


Figure A.10: Suspension model concept design, view 3. Own source via *SolidWorks*.

A.7 Rover final design gallery

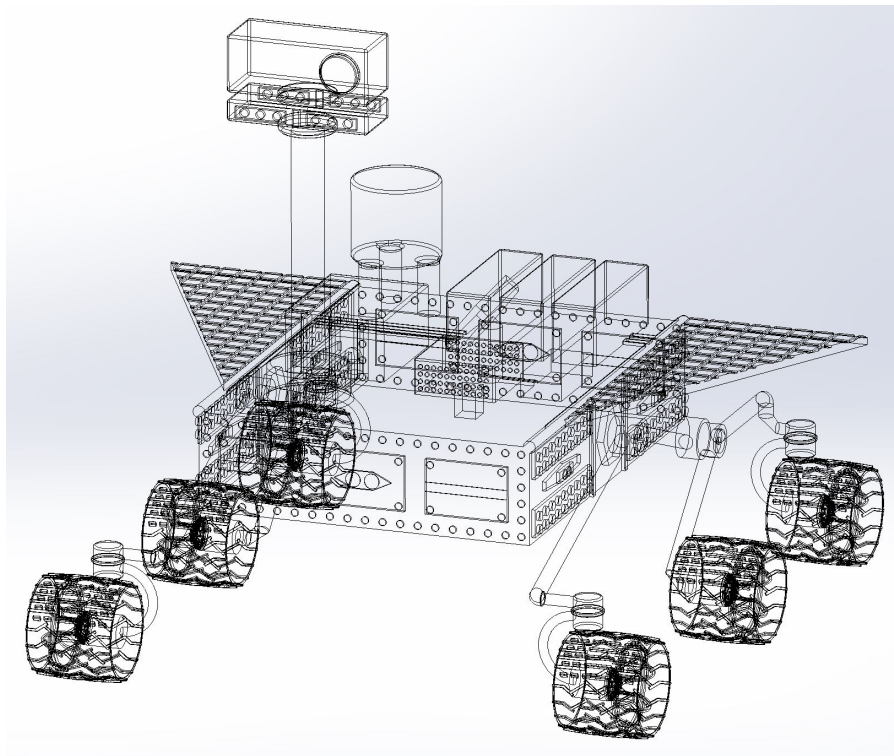


Figure A.11: Rover final design concept, view 1. Own source via *SolidWorks*.

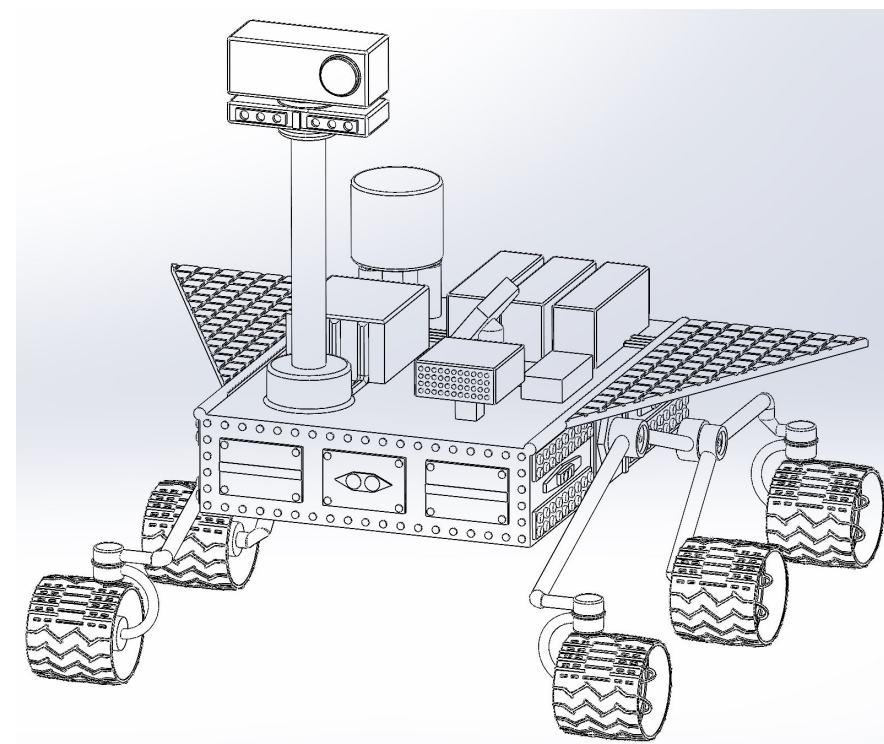


Figure A.12: Rover final design concept, view 2. Own source via *SolidWorks*.

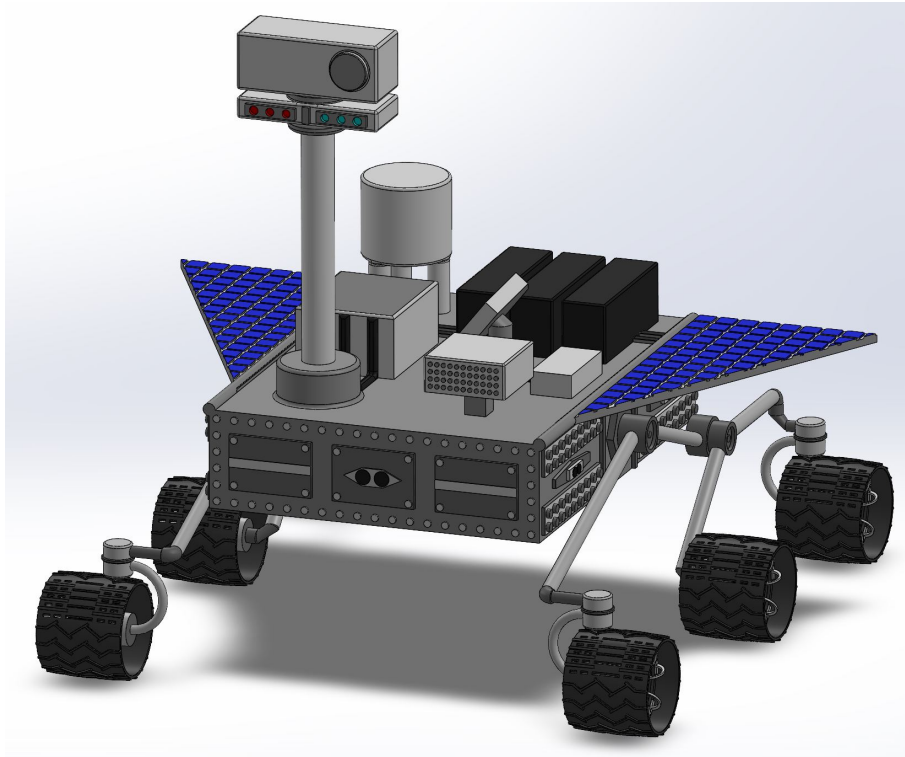


Figure A.13: Rover final design concept, view 3. Own source via *SolidWorks*.

