

Project Title

Metallic & Fabric Dome

Sponsor



Project Summary

The goal is to design a dome composed of a metallic support structure and a fabric cover. The dome must be a V3 or V4 geo-dome with a diameter of 6.8 meter. The design main goals are:

1. To find a simple, robust and easy solution for the junction nodes of dome structure using metallic profiles.
2. To find and implement a solution for an articulate and automatic entrance door, which occupies a full hexagon.
3. To find and implement a solution for the automatic operation of the windows.
4. To build a scale model and/or a full scale detail of the structure, e.g. the junction node.

The project requirements are:

1. Reuse provided materials;
2. Use low cost hardware solutions;
3. Use open source software;
4. Adopt the International System of Units (NIST International Guide for the use of the International System of Units);
5. Comply with the machine (2006/42/CE 2006-05-17),

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N.: 4

Students:

- Arne Speckstadt
- Klaudia Skonieczna
- Gergely Rajnai
- Jairo Pérez Daza
- Barb Bogdan Marius

Panel of Supervisors:

- **Abel Duarte** (ajd 'at' isep 'dot' ipp 'dot' pt)
- **Fernando Ferreira** (fjf 'at' isep 'dot' ipp 'dot' pt)
- Bedita Malheiro (mbm 'at' isep 'dot' ipp 'dot' pt)
- Cristina Ribeiro (mcr 'at' isep 'dot' ipp 'dot' pt)
- Manuel Silva (mss 'at' isep 'dot' ipp 'dot' pt)
- Paulo Ferreira (pdf 'at' isep 'dot' ipp 'dot' pt)
- Pedro Guedes (pbg 'at' isep 'dot' ipp 'dot' pt)

Client:

- Client Name, email, etc.

Contents

Project Planning: [Deadlines](#), [Tasks](#), [Gantt chart](#), [Task allocation](#)

Logbook: [Weekly Report](#), [Meetings](#), [Activities](#)

Report: [Report](#)

Deliverables: [Links to all deliverables](#)

Contacts

- Arne Speckstadt, arne.speckstadt@student.uantwerpen.be, +32 4 96 47 50 90
- Klaudia Skonieczna, k.skonieczna@samorzad.p.lodz.pl, +48 505 962 869.
- Gergely Rajnai, rajnai.gergely11@gmail.com
- Jairo Pérez Daza, jairo.pe22@gmail.com,
- Bogdan Marius Barb, barb.bogdan.marius@gmail.com

Utilities

- [DokuWiki Syntax](#)
- [Videos on how to use Wikidoku](#)

Acknowledgements

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