Management Center Innsbruck

Department of Technology & Life Sciences

Master's program Mechatronics & Smart Technologies



Report

composed as part of the course
WS 2024 Computational Methods of Fluid Dynamics
(MECH-M-3-CFD-NSM-VO)

about

Optimization Study of a flow heater

from

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Study program Master's program Mechatronics & Smart Technologies

Year MA-MECH-23-VZ

Course WS 2024 Computational Methods of Fluid Dynamics (MECH-M-3-CFD-NSM-VO)

Name of lecturer Manuel Berger, PhD Submission deadline February 14, 2024

Contents

| 1 Meshing of the Domain | 1 |
|-------------------------|-----|
| Bibliography | 11 |
| List of Figures | 111 |
| A MATLAB scripts | IV |

Chapter 1

Meshing of the Domain

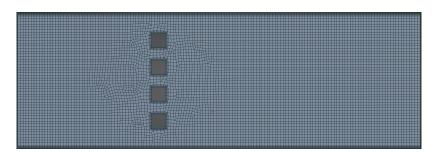


Figure 1.1. Full view of the base geometry meshing

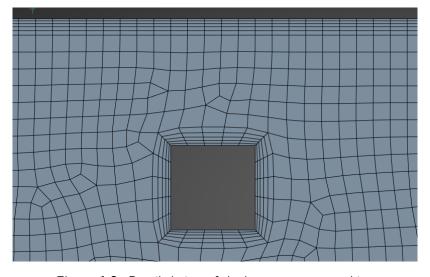


Figure 1.2. Detailed view of the base geometry meshing

Bibliography

List of Figures

| 1.1 | Full view of the base geometry meshing | 1 |
|-----|--|---|
| 1.2 | Detailed view of the base geometry meshing | 1 |

Appendix A

MATLAB scripts

As attachment, all Matlab live scripts and Simiulink files used in in the context of this laboratory are submitted as .mlx-files and .slx-files. Additionally, the following live scripts are also directly attached to this report in written format:

- response_fitting_lab_data.mlx
- aerodynamic_state_observer_controller_init.mlx