



Introduction of the First Year Ph.D. Student

Ondřej Vaverka

Institute of Machine and Industrial Design

Faculty of Mechanical Engineering

Brno University of Technology

Presentation of the First Year Ph.D Student
– 11.10.2017



Institute of Machine
and Industrial Design



Content

- Introduction of myself
- Education
- Work experience
- Teaching & Studying



Introduction of myself

- Work:
REAT Group, D5/470





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- Work:
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- Hometown:
Frenštát pod Radhoštěm





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 - **Sport:** (minifootball, karate, cycling, running, swimming,)





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Introduction of myself

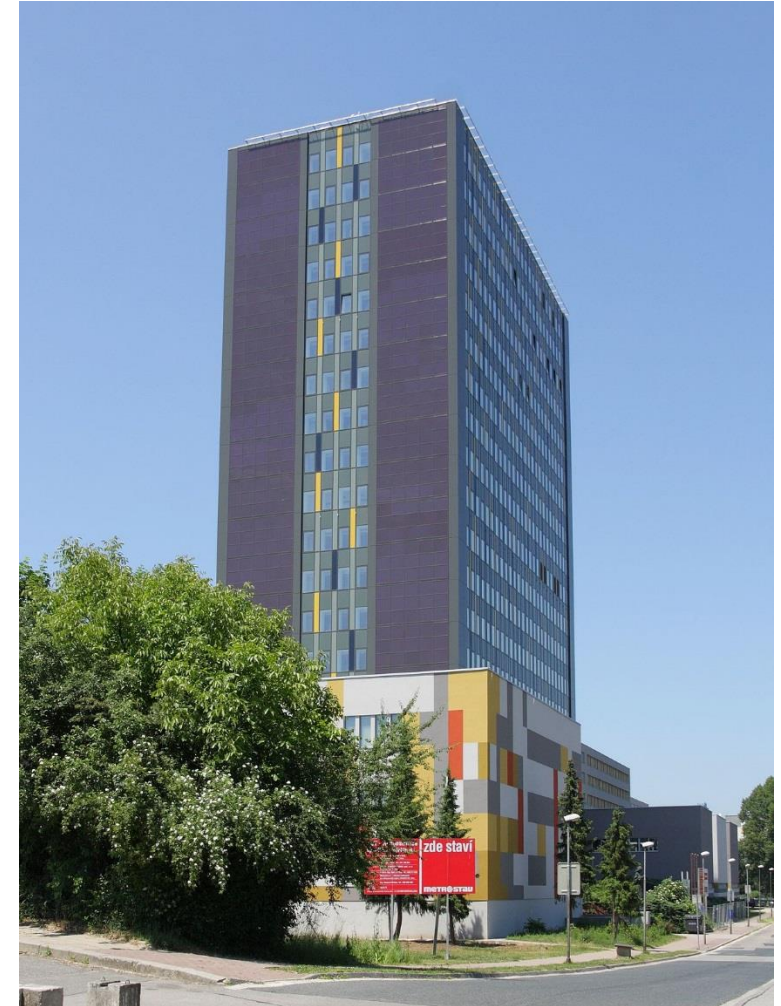
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 - **Steam locomotives**





Education

- Gymnázium Frenštát pod Radhoštěm
- Faculty of Mechanical Engineering, Brno University of Technology





Education – bachelor's thesis

- DESIGN OF STORAGE CONTAINERS FOR POWDERED METAL MATERIALS
- Supervisor: doc. Ing. DANIEL KOUTNÝ, Ph.D.
- Container for powders used by SLM





Education – master's thesis

- OPTIMIZATION OF AXLE CARRIER FOR FORMULA STUDENT FOR SLM FABRICATION
- Supervisor: doc. Ing. DANIEL KOUTNÝ, Ph.D.
- Topologically optimized
- 485 g, 0, 6 max. deformation, 1,3 safety factor

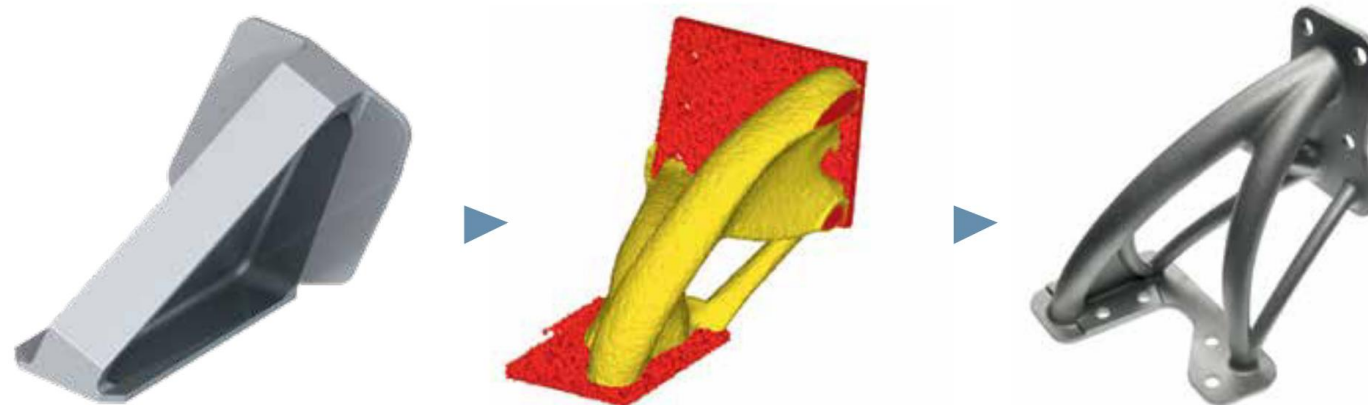


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Education – doctoral study

- TOPOLOGY OPTIMISATION OF ADDITIVELY MANUFACTURED PARTS
- Supervisor: doc. Ing. DANIEL KOUTNÝ, Ph.D.
- The aim is to develop a tool for topology optimisation, that includes rules for design of additive manufactured parts





Work experiences

Huisman

- Huisman Konstrukce (Huisman Equipment BV)
- Lifting, Drilling and Subsea solutions
- 3 years
- Welding department and Quality control
- Final documentation, WPQR, Cutting plan template



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Teaching & Studying

- 1K Machine Design Fundamentals
- 3CD CAD
- ZAT Additive Technologies
- ZKP Team Project

- 9MOP Methodologies of Scientific Work
- 9VPR Research Project and its Management
- 9AJ English for Doctoral Degree Study
- 9MKP FEM in Engineering Computations
- 9OMP Optimization – Mathematical Programming





Thank you for attention

Ondřej Vaverka

<http://uk.fme.vutbr.cz/>



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