



A Young Engineer In Germany

Jonathan Theoret

Why Did I choose Germany?



Mechanical Engineering

Cars
Production School
Different Learning Culture
Work Ethic



Journey

Europe
Berlin
Music
Clubs (DJ)
France... Cooking

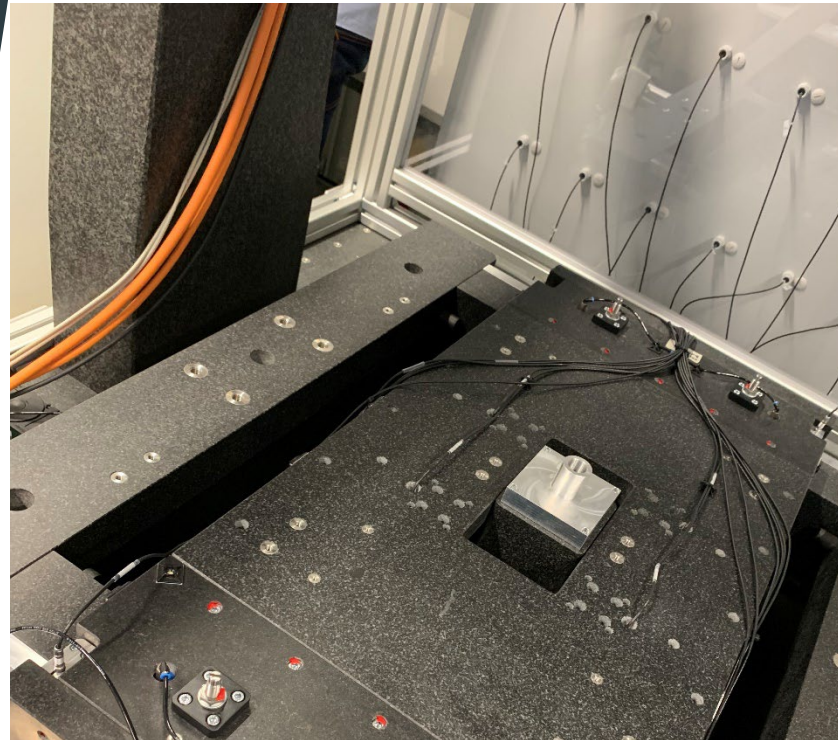


Self-Growth

No Distractions
Busy At school
Before I graduate
Last Chance

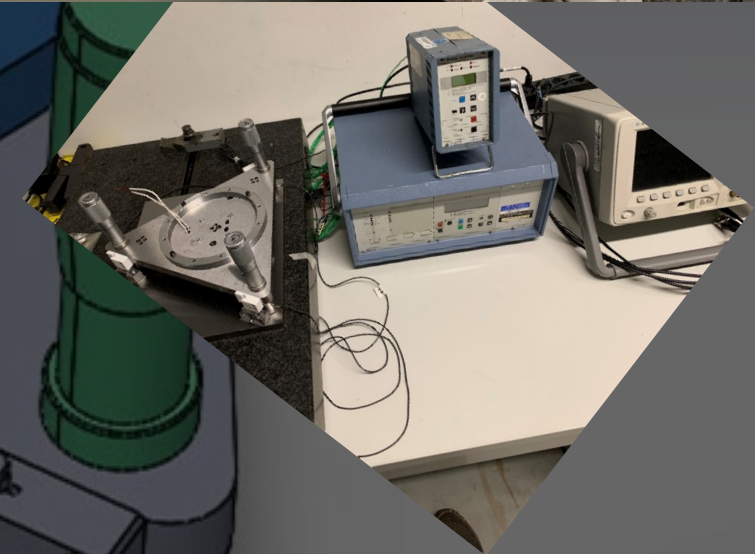
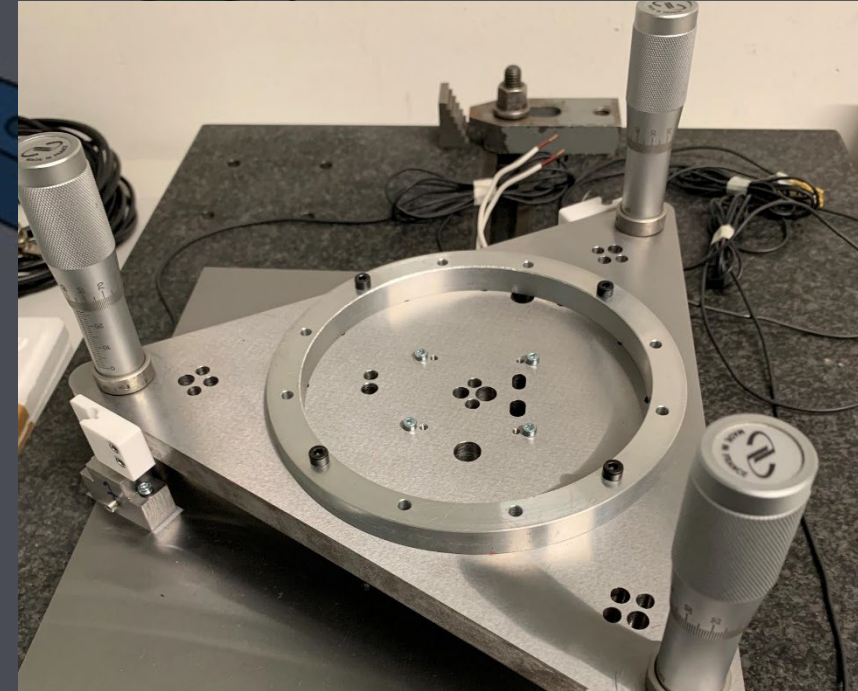
What is my main project?

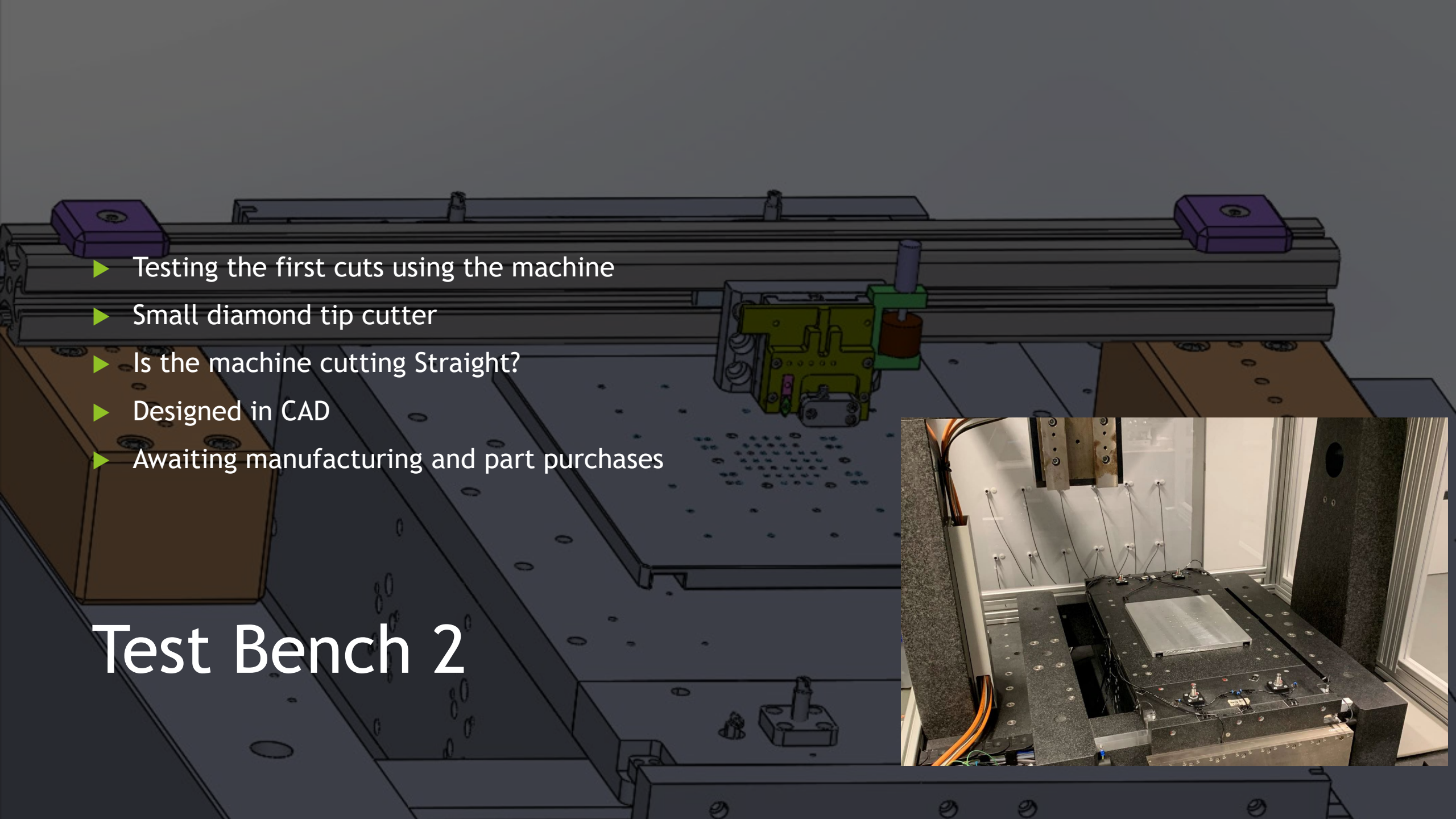
- ▶ Ultra-precise electromagnetic linear guided cutting machine
- ▶ Machine with many sensors and magnets to levitate and cut precise metals
- ▶ Machine is not fully finished
- ▶ Test benches needed to be complete
- ▶ Test Bench 1: Triangle pulling force testbench
- ▶ Test Bench 2: Surface Cutting



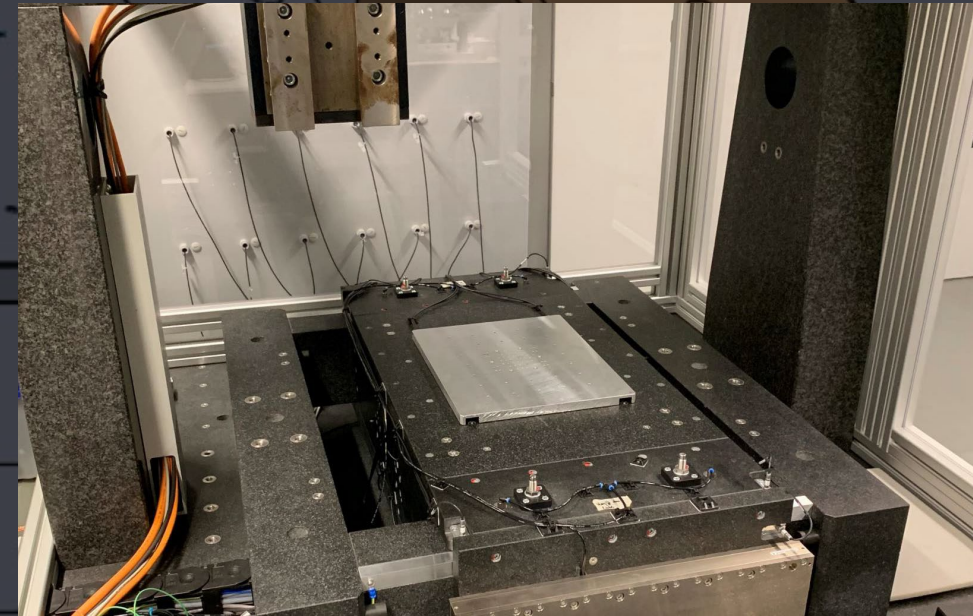
- ▶ To test and collect data on the pulling force of the machine's magnets
- ▶ Pulling force vs. Current
- ▶ Designed in CAD and created prints
- ▶ Assembled and connected sensors
- ▶ Routed sensors to Voltage amplifiers and Oscilloscope

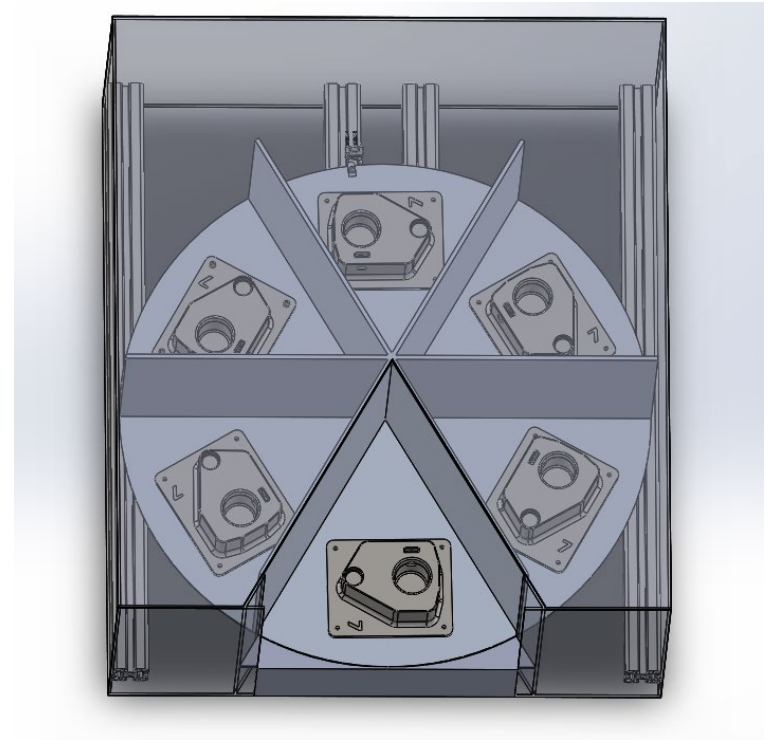
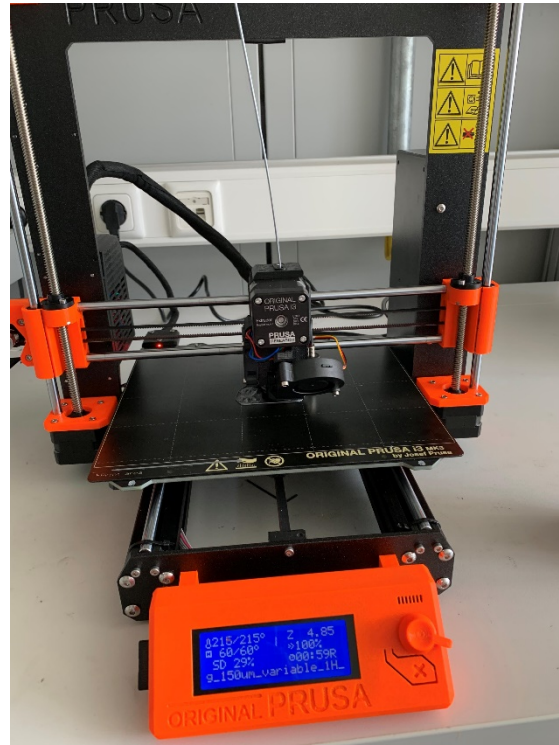
Test Bench 1



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- A 3D CAD model of a test bench assembly. The model shows a complex structure with various components, including a central green and yellow assembly, purple blocks, and a brown base. The assembly is mounted on a dark grey base with numerous circular holes. The text is overlaid on the left side of the model.
- ▶ Testing the first cuts using the machine
 - ▶ Small diamond tip cutter
 - ▶ Is the machine cutting Straight?
 - ▶ Designed in CAD
 - ▶ Awaiting manufacturing and part purchases

Test Bench 2





Working with Nicholas

- ▶ 3D printed fan fixtures on CNC machines for presentation
- ▶ 3D Printer Build.
- ▶ Presentation Stand



Traveling

► Munich

- BMW Museum
- Huge City
- Pinakothek der Moderne

► Salzburg

- Sound of Music Tour
- Old Town Kaiviertel



Traveling 2

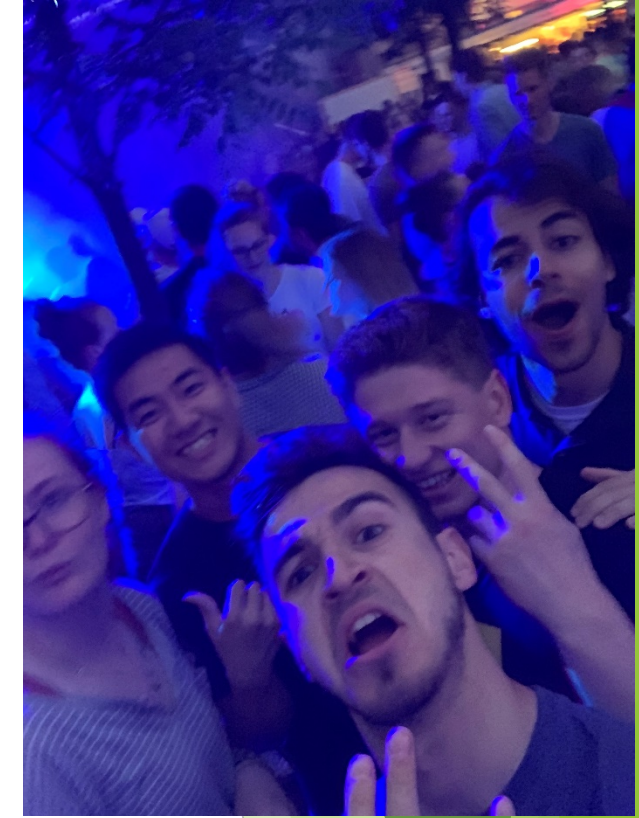
- ▶ Amsterdam
 - ▶ Anne Frank house
 - ▶ Water Cruise
 - ▶ Van Gough Museum

- ▶ Berlin
 - ▶ The Wall... & monuments
 - ▶ Night Life



Beer

Friendships To last



Thank you!

Leibniz Universität Hannover

- Life Long Engineering skills
- Life Long Memories
- Life Long Friendships
- Life Long Dream to have this Car →

