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
Test Bench 1

- 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 2

- Testing the first cuts using the machine
- Small diamond tip cutter
- Is the machine cutting Straight?
- Designed in CAD
- Awaiting manufacturing and part purchases
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
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 →