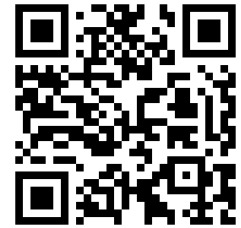


# Jean - Baptiste Tissot

## French German R&D mechanical engineer

+33 6 44 35 38 58 ; tissotjeanbaptiste214@gmail.com ; Pully, Suisse



### Professional experience

#### Master's Thesis: Design and prototyping of a microfluidic chip

*Institute of microstructure technology, Karlsruhe, DE*

- **Modeling and optimization of microchannels** using COMSOL Multiphysics for bacterial stabilization. (size of final prototype: 35 x 5 x 0,5 mm<sup>3</sup>)
- **Iterative design process** based on multiphysics simulations and **multi-scale prototypes**.
- Design and execution of **experimental setups** to validate numerical models.

#### Operation and maintenance manager – Metering and batteries

Nov-23 – aujourd'hui

*Romande Energie, Morges, CH*

- **Supervision of operations and maintenance** of a fleet of over **10,000 energy meters**.
- **Management of external contractors** and preparation and monitoring of **maintenance budgets**.
- 7 months of **project management** for **solar plants** including energy metering.
- **Drafting of detailed process documentation** and establishment of best practices in compliance with **OIBT** and **NIBT** electrical standards for energy metering.

#### Quality Engineering Intern – Automotive Prototypes

Mar-21 - Sep-21

*BMW Group, Munich, DE*

- Organization and **supervision of quality assurance** for automotive prototypes, including leading **supplier factory audits** and **quality gate checks**.
- **Integration of a robust data-analysis tool** to improve quality management processes.

### Education

#### MSc in Mechanical Engineering (German degree)

Sep-21 - Sep-23

*Karlsruhe Institute of Technology (KIT), Germany*

- French-German double degree (KarlINSA program) with a final grade of 1.6.
- Specialization in **medical technologies and energy systems**.

#### MSc in Mechanical Engineering (French degree)

Sep-17 - Jul-21

*INSA Lyon, France*

- Specialization in **mechanical design and development**, with numerous projects in **mechanical design** and **finite-element numerical simulations**.

### Skills

**Software & tools:** SolidEdge(advanced), COMSOL(advanced), Catia V5(basic), Python, C++(basics)

**Engineering methods:** Numerical simulation (FEM), mechanical design, prototyping, design of experiment, metrology and mechanical testing, **hands-on abilities (see portfolio)**, data analysis

**Soft skills:** Adaptability, high cooperation skills, autonomy, rigor, curiosity

**Languages:** French (Native) • English (C1) • German (C1)