

# Juri Fedjaev

*M.Sc. Student - Electrical & Computer Engineering*

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## Education

- 2015–to date **M.Sc. Electrical & Computer Engineering**, *Technical University of Munich*, Germany,  
Current grade: 1.6 (German).  
Master's studies in Electrical and Computer Engineering. Main interests:
- Machine Learning and Data Science,
  - Computer Vision,
  - Human-inspired Robotics and Neuroscience.
- 2013–2015 **Diplôme d'Ingénieur**, *Ecole Centrale de Lille*, France.  
One of top 15 best Grandes Ecoles of engineering (out of 200).  
○ Electives: Automation Systems, Ambient Intelligence, Bioengineering  
○ Research project: Linear programming for the energy management of a lithium-ion battery
- 2013–to date **T.I.M.E. Double Degree Program**, *TU Munich and EC Lille*.  
T.I.M.E. is a network of 53 leading Technical Institutions with the goal of creating Top Industrial Managers and Engineers for the future. T.I.M.E. awards its students with two Masters-level Degrees from two different countries (Diplôme d'Ingénieur Centralien and M. Sc. TUM)
- 2011–2013 **B.Sc. Electrical & Computer Engineering**, *Technical University of Munich*, Germany.  
Bachelor's studies in Electrical Engineering and Information Technology  
○ Mandatory courses: Mathematics, Physics, Electromagnetism, Circuit Theory, Digital Design, Measurement Systems and Sensor Technology, Algorithms and Data Structures, Signal Processing, Telecommunications and Control Systems, Computer Technics, Electronics and Electrical Power Devices
- 2004–2011 **German Abitur**, *Ulrichsgymnasium Norden*, Germany, Grade: 1.2 (German).  
German highschool: scientific profile with physics and biology as majors.

## Practical Experience

- 08/16–to date **Innovation Analyst Working Student**, *Siemens Technology-to-Business - next47*, Munich, Germany.  
Siemens Technology-to-Business (TTB) practices "outside-in" innovation for Siemens, seeking out the latest technology innovations from startup companies, individual inventors, universities and research labs.
- Scouting of start-ups and transferring innovation to Siemens' business units
  - Technical due dilligence
  - Technology landscaping

- 06/15–09/15 **Research Intern**, *Bioacoustics Research Laboratory, University of Illinois at Urbana-Champaign*, Urbana, USA.  
Studies:
  - Ultrasound-activated drug delivery using nanoparticles on ultrasound contrast agents
  - Fabrication and characterization of ultrasound contrast agents
  - Calibration of ultrasound transducers
- 2013–2015 **Student Project**, *EC Lille*.  
Developing a smart bracelet with innovative tactile feedback actuators in collaboration with a local micro- and nanoelectronics institute (IEMN).
  - Responsible for the programming of microcontrollers and signal processing
  - Awarded as one the best smart devices during a regional student science competition MOC2014
- 01/14–02/14 **IT Intern**, *ERDF*, Lille, France.  
ERDF (Electricité Réseaux Distribution France), provider of the national power supply system:
  - Training in document management systems (DMS)
  - Debugging of a newly adapted DMS at ERDF
- 02/13–04/13 **Engineering Intern**, *EHZ Ingenieurbüro*, Norden, Germany.
  - Construction and installation of electrical control cabinets
  - Implementing web visualisations for automation systems
  - Programming of a Simatic-S7-1200 PLC

## Extracurricular Activities

- 02/16–to date **SpaceX Hyperloop Competition**, *WARR Hyperloop Team*, München.  
WARR Hyperloop is a student team participating in the SpaceX Competition to build the Hyperloop, a high-speed transportation system. Responsibilities:
  - Hardware development for the computer & navigation subsystem: PCB-design and system architecture
  - Software development for microcontrollers
  - Hardware testing under extreme conditions (vacuum chamber)
- 2014–2015 **Treasurer**, *Club TIME*.  
Responsible for accounting and budget (> 10,000 EUR) for the organisation of events for international first-year students at ECL.
- 2013–2015 **Active Member**, *Plug In*.  
Association at EC Lille which is responsible for the organisation of musical events performed by student bands

## Other

- Languages: German (native speaker), Russian (bilingual), English (fluent, TOEIC: 960/990), French (fluent)
- IT skills: Advanced: MS Powerpoint, Word, Excel,  $\LaTeX$ , Matlab, C/C++, ROS, Linux and Mac OS.  
Basic: JavaScript, Python, UML, HTML/CSS and CATIA v5.

Munich, November 3, 2016.

