

# JAN PETRIK

Citizen of the Czech Republic with permanent residency in Switzerland

(+41) 76 449 53 38, jpetrik@ethz.ch, www.janpetrik.com, LinkedIn: , Google Scholar: 

## EDUCATION

---

<b>University of Edinburgh</b> Master's degree in Innovation, Technology and the Law (LL.M.)	2023 – 2025
<b>FernUni Schweiz</b> Bachelor's degree in Law (BLaw)	2021 – 2025
<b>ETH Zurich</b> Doctoral degree in Mechanical Engineering (Dr. sc.) Focus on modelling of manufacturing processes via machine learning techniques	2020 – 2023
<b>ETH Zurich</b> Master's degree in Mechanical Engineering (MSc) Focus on machine learning, image analysis, computer vision, mechanics Winner of The Bakala Foundation Scholarship	2018 – 2020
<b>Prague Academy of Crafts</b> Electrician (high-voltage current) Passed with honors	2015 – 2017
<b>Czech Technical University in Prague</b> Bachelor's degree in Theoretical Fundamentals of Mechanical Engineering (BSc) Passed with honors, TOP 5 % of a class, Awarded a merit scholarship (2x)	2014 – 2017

## WORK EXPERIENCE

---

<b>ETH Zurich, Switzerland</b> · Research software engineer with the focus on AI in manufacturing	2023 – 202x
<b>IPrime Rentsch Kaelin, Switzerland</b> · Patent attorney candidate · Engaged in patent prosecution and litigation	2022 – 2026
<b>Czech Technical University in Prague</b> · Modelled thermal-hydraulics systems and analyzed sensor data	2016 – 2018
<b>SIDAT, Czech Republic</b> · Programmed assembly lines via PLC mainly for automotive and food industry	2015 – 2016
<b>MM Industrial Spectrum, Czech Republic</b> · Wrote, edited and published articles focusing on engineering topics	2014 – 2016

## INTERNSHIPS

---

<b>Arbrea Labs, Switzerland</b> · Developed Generative Adversarial Networks with the application in plastic surgery	2019 – 2020
<b>Microsoft, Switzerland</b> · Programmed Multi-View Depth Map Estimation using Recurrent Neural Network	2019
<b>Massachusetts Institute of Technology, USA</b> · Performed neutron radiography with image processing using Convolutional Neural Networks Constructed a smart burst test facility	2018
<b>Tsinghua University, China</b> · Programmed thermal-hydraulics correlations for a nuclear reactor	2017

## OTHER INFORMATION

---

<b>Computer Languages &amp; Libraries</b>	Python, C++, PyTorch, TensorFlow, OpenCV, Scikit
<b>Foreign Languages</b>	Czech (Native tongue), English (IELTS 8/9) German (Goethe-Zertifikat C1), French (DALF C1)