



## Jonáš Tuček

### Curriculum Vitae

📍 Petra Rezka 1203/10, Prague 4–Nusle 140 00, Czech Republic

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Born 9 July 1996

#### FIELD OF INTEREST

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inverse design, electromagnetic field theory, computational electromagnetics, optimization techniques, cluster computing in MATLAB

#### WORK EXPERIENCE

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June 2019 – present

##### Student Research Assistant

[Computational electromagnetics group](#), Department of Electromagnetic Field, CTU FEE in Prague

- programming tasks in the inverse design of antennas

June 2018 – August 2018

##### Product Tester

[Siemens inc.](#), Trutnov

- testing product functionality and assisting with product development of low-voltage switchgear technologies

#### INTERNATIONAL MOBILITY

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December 2022

##### Jadavpur University

Kolkata, India, Department of Electrical Engineering

- prof. Bhaskar Gupta
- design of dual-band circularly-polarized antenna for UAV

September 2021 – April 2022

##### Technical University of Denmark

[The TopOpt group](#), Department of Mechanical Engineering

- prof. Ole Sigmund
- density-based topology optimization in method of moments

#### EDUCATION

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2021 – present

##### Ph.D. degree in Electrical Engineering and Communications: Radioelectronics

Faculty of Electrical Engineering, Czech Technical University in Prague

- Topic: *Density based topology optimization for electromagnetic design*

2019 – 2021

##### Master's degree in Electronics and Communication: Radio systems

Faculty of Electrical Engineering, Czech Technical University in Prague

- Master's Thesis: [Shape synthesis based on exact reanalysis](#)
- Graduated with distinctions.

2016 – 2019

##### Bachelor's degree in Electronics and Communication

Faculty of Electrical Engineering, Czech Technical University in Prague

- Bachelor's Thesis: [Local Perturbation in Method of Moments](#)
- Graduated with distinctions.

#### TRAINING

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May 2023

##### ESoA – Advanced Mathematics for Antenna Analysis

**SKILLS**

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<b>Languages</b>	Czech – <b>Native Speaker</b> English – <b>B2</b> French – <b>B1</b>
<b>Computer Skills</b>	MATLAB, $\LaTeX$ , Python AWR Microwave Office, CST Microwave Studio, Microsoft Office