

# Roman Dvořák

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## Education

### Bc. study – CTU in Prague, Faculty of Electrical Engineering

Since 2017

study program: Open Electronic Systems

### High school (Gymnasium)

2013 – 2017 | ČRG in České Budějovice

Passing an school-leaving exams (maturita)

## Projects

### Bolidozor – radio meteor detection network

Since 2014

Development of software and data analysis from international network for observation of radio fireballs.

### MLAB – open-source electronic laboratory

Since 2013

Design of electronic modules, development of software.

### Mentor at summer school of Astronomy

Since 2017

Supervisor of radio-astronomy group at the summer school 'Astronomická expedice Úpice' for high school and university students.

### AROM (Autonomous robotic observatory manager)

Since 2016

Open-source software for autonomous controlling observatories and their equipment.

### Robotization and renovation of the microscope at ODZ ÚJF AV ČR.

2018

Hardware modification of the optical microscope and software development for automatic sampling.

### Modernization of the Solar coelostat at Ondřejov observatory

2017 - 2018

Development of software for controlling movements of solar coelostat and data processing from measuring devices. Project for Solar department of ASÚ AV ČR, v.i.i.

### Modernization of the Patrol telescope at Ondřejov observatory

2017

Development of software for controlling telescopes and accessories.

## **RABTeZA**

2014

Design and realisation of experiment for stratospheric balloon.

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### **Employment**      **Universal Scientific Technologies s.r.o.**

since 2017/05

Software development, development of new products.

### **CTU in Prague, Faculty of Electrical Engineering**

2017/12

Development of software for focuser of telescope D50.

### **Czech Academy of Sciences, Nuclear Physics Institute**

2016/11 – 2016/12, (Department of Radiation Dosimetry)

Development and production of holder for TLD and DSPF.

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### **Skills**

Programming (Python, C, Java)

Database systems (SQL, MongoDB)

EDA software (KiCAD)

Linux server administration

3D print, 3D modelling (OpenScad, FreeCAD)

Driving license B

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### **Languages**      Czech (native), English

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### **Conferences**      **IMC 2018 - International Meteor Conference**

2018 | International conference, Pezinok, Slovakia

Poster: **Current state of the Bolidozor network.**

### **IMC 2017 - International Meteor Conference**

2017 | International conference, Petnica, Serbia

Poster: **Data management system of the Bolidozor network**

### **IBWS - INTEGRAL/BART Workshop**

2016 | International conference, Karlovy Vary, Czech Republic

Poster: **Bolidozor radio meteor detection network**

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### **Interests**

Astronomy, Electronics, Programming, Photography, Technologies