

# Dr. Ing. Pavel Fikar Ph.D.

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## PERSONAL INFORMATION

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## INTRODUCTION

Dr. Ing. Pavel Fikar Ph.D. is an assistant researcher recently working in biotechnology on applications of dielectrophoresis and bio-microfluidic devices in medicine and synthetic biology. He finished his doctoral thesis focused on dielectrophoretic cytometry under double supervision at the University of West Bohemia, Pilsen, Czech Republic and at the Université Paris-Est, ESIEE Engineering in Paris, France.

## EDUCATION

**University of West Bohemia in Pilsen, Pilsen, CZ** **9/2012 – 12/2016**

**Université Paris-Est, Paris, F**

Ph.D. under double supervision, Engineering Principles in Cellular Biology

**University of West Bohemia in Pilsen, Pilsen, CZ** **9/2010 – 6/2012**

Master of Engineering, Electronics and Applied Informatics

**University of West Bohemia in Pilsen, Pilsen, CZ** **9/2007 – 6/2010**

Bachelor of Engineering, Electronics and Telecommunications

## ACADEMIC EXPERIENCE

**Université Paris-Est, Paris, F** **9/2011 – 1/2012**

International Master of Engineering, ESIEE Paris, ESIEE Engineering

Micro and Nano Technologies

International stage

## TEACHING EXPERIENCE

**Prague Congress Center Inc., Prague, CZ** **2/2009 – 4/2010**

JOB TITLE: Lecturer of IT

TASK: Education of employees of Prague Congress Center in the field of Information Technologies.

## INDUSTRIAL EXPERIENCE

**ETD Transformers Inc., Pilsen, CZ** **10/2009 – 9/2010**

JOB TITLE: Designer

COMPANY PROFILE: ETD Transformers Inc. specializes in production of power transformers up to 400 MVA and voltage of 410 kV, chokes for electric tractions and power engineering, as well as in production of reactors.

TASKS: Design of 3D models of oil transformers, project documentation, network administration.

## PUBLICATIONS

- P. Fikar et al. *Distributed dielectrophoretic cytometry: measuring dielectric signature distribution in cell populations*. In Proceedings of Dielectrophoresis 2016, July 2016.
- P. Fikar, G. Lissorgues, L. Rousseau, O. Francais, B. Le Pioufle, F. S. Hamdi, V. Georgiev, D. Georgiev *Su-8 microchannels for live cell dielectrophoresis improvements*. *Microsystem Technologies*, ISSN 0946-7076, DOI 10.1007/s00542-015-2725-y, July 2015.
- P. Fikar, G. Lissorgues, L. Rousseau, O. Francais, B. Le Pioufle, F. S. Hamdi, V. Georgiev, D. Georgiev *Su-8 microchannels for live cell dielectrophoresis improvements*. In Proceedings of DTIP - Design, Test, Integration and Packaging of MEMS/MOEMS. IEEE, April 2015.
- P. Fikar et. al. *Dependence of dielectrophoretic forces on membrane proteins*. In Proceeding of BioBricks Foundation Synthetic Biology Conference (SB6.0), July 2013.
- P. Fikar. *Microfluidic device for dielectrophoretic sorting of live cells*. In *Elektrotechnika a informatika* 2013, Part 2., Electronics. Pilsen: University of West Bohemia, 2013, pg. 29-32, ISBN: 978-80-261-0232-8.
- P. Fikar. *Standard methods for computer modelling and simulation of live cells dielectrophoresis*. In *Elektrotechnika a informatika* 2012, Part 2., Electronics. Pilsen: University of West Bohemia, 2012, pg. 33-36, ISBN: 978-80-261-0119-2.