

Lázeňská 391  
76314 Zlín – Kostelec  
Czech Republic

Phone: +420 604 460 264  
Email: [muller@ktiml.mff.cuni.cz](mailto:muller@ktiml.mff.cuni.cz)  
<http://ktiml.mff.cuni.cz/~muller>

# RNDr. Ing. Tomáš Müller

## Education

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------|
| 2001 – present                                                                                                                                                                                                               | <b>Faculty of Mathematics and Physics,<br/>Charles University</b>        | Prague |
| <ul style="list-style-type: none"><li>• PhD study</li><li>• research areas: Constraint Programming, Timetabling, Interactivity</li><li>• dissertation thesis: <i>Constraint Based Timetabling</i> (to be defended)</li></ul> |                                                                          |        |
| 2004                                                                                                                                                                                                                         | <b>Faculty of Mathematics and Physics,<br/>Charles University</b>        | Prague |
| <ul style="list-style-type: none"><li>• entitled RNDr. (Rerum Naturalium Doctoris)</li></ul>                                                                                                                                 |                                                                          |        |
| 1997 – 2003                                                                                                                                                                                                                  | <b>Faculty of Electrical Engineering,<br/>Czech Technical University</b> | Prague |
| <ul style="list-style-type: none"><li>• external engineer study</li><li>• specialization: <i>Radioelectronics and Communication Technology</i></li></ul>                                                                     |                                                                          |        |
| 2003                                                                                                                                                                                                                         | <b>Master Thesis</b>                                                     | Prague |
| <ul style="list-style-type: none"><li>• topic: <i>Evolutionary Design of Microwave Circuits</i></li></ul>                                                                                                                    |                                                                          |        |
| 1996 – 2001                                                                                                                                                                                                                  | <b>Faculty of Mathematics and Physics,<br/>Charles University</b>        | Prague |
| <ul style="list-style-type: none"><li>• master study</li><li>• specialization: computer science, <i>Software Engineering</i><br/><i>Computer Graphics, Database Systems</i></li></ul>                                        |                                                                          |        |
| 2001                                                                                                                                                                                                                         | <b>Master Thesis</b>                                                     | Prague |
| <ul style="list-style-type: none"><li>• topic: <i>Interactive Timetabling</i></li><li>• with distinction ‘Excellent’</li></ul>                                                                                               |                                                                          |        |

## Professional Experience

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|
| 10/01/2005 – present                                                                                                                                                                                                                                      | <b>Purdue University</b> | Lafayette, IN |
| <b>Scheduling Research Coordinator</b>                                                                                                                                                                                                                    |                          |               |
| <ul style="list-style-type: none"><li>• department: Space Management and Academic Scheduling</li><li>• development of automated course timetabling system for Purdue University, IN, USA</li></ul>                                                        |                          |               |
| 10/16/2000 – 09/30/2005                                                                                                                                                                                                                                   | <b>ESKO Graphics</b>     | Prague        |
| <a href="http://www.esko-graphics.com">http://www.esko-graphics.com</a>                                                                                                                                                                                   |                          |               |
| <b>R&amp;D Engineer - (part time, from 10/01/2004 full time)</b>                                                                                                                                                                                          |                          |               |
| <ul style="list-style-type: none"><li>• division: Commercial Printing</li><li>• digital prepress workflow</li><li>• software for automated testing – test framework</li><li>• JAVA, C/C++, Microsoft SQL Server, J2EE, JBoss Application Server</li></ul> |                          |               |

10/01/2002 – 04/30/2005 **Purdue University Timetabling** Prague  
**Research funded by Purdue University, IN, USA**

- participation in the project of development of automated course timetabling system for Purdue University, IN, USA

2/1/2000 – 6/31/2000 **Disnet, s.r.o.** Prague

**Programmer (part time)**

- creation of an advertisement system for a newspaper company
- JAVA, MySQL

12/1/1997 – 12/31/1999 **ŠKODA AUTO, a.s.** Mladá Boleslav

**Practice in division EOT - Applications of work processes and technical development**

- software for automatic faxing order forms via fax-modem
- Delphi 3.0

**Selected Publications**

**Constrain Programming, Timetabling**

- **Minimal Perturbation Problem in Course Timetabling**
  - *T. Müller, H. Rudová, R. Barták*, In Practice And Theory of Automated Timetabling, Selected Revised Papers, 2005. To appear.
- **Iterative Forward Search: Combining Local Search with Maintaining Arc Consistency and a Conflict-based Statistics**
  - *T. Müller, R. Barták, H. Rudová*, in proceedings of the LSCS'04 Workshop, Toronto, September 2004
- **A New Approach to Modeling and Solving Minimal Perturbation Problems**
  - *R. Barták, T. Müller, H. Rudová*, in K.R. Apt, F. Fages, F. Rossi, P. Szeredi and J. Vancza (eds.), Recent Advances in Constraints, 2003. Springer-Verlag LNAI 3010, 2004
- **Minimal Perturbation Problem – A Formal View**
  - *R. Barták, T. Müller, H. Rudová*, Neural Network World (2003), vol. 13, no. 5, p. 501-511.
- **Interactive Timetabling: Concepts, Techniques, and Practical Results**
  - *T. Müller and R. Barták*, in proceedings of the PATAT 2002 Conference, Gent, August 2002

**Other**

- **Evolutionary Design of Microwave Circuits**
  - *T. Müller, Z. Škvor*, in proceedings of the COMITE'03 Conference, Pardubice, September 2003

**Other Skills**

**Languages**

- Czech - mother tongue
- English – fluent in writing and speaking

**Hobbies**

- Sport (dancing, skiing, swimming, bicycling...), culture (theaters, movies), traveling

**Driver's license**