

## Mgr. Petr Kubánek

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My major work is “Remote Telescope System” (RTS2), an open source package for astronomical observatory control. I program mainly in C/C++ and other C-like languages (Perl, PHP, Java). I pose some knowledge of the TCP/IP networking, PostgreSQL and Oracle SQL databases, COBOL, XML-based technologies (xhtml, XLTS), Python, IRAF and MIDAS image processing packages, Visual Basic, Prolog, GNU Automake and Autoconfig tools, LaTeX, bash and other Unix scripting, bat files, UML and Linux kernel development.

I am fluent in Unix/Linux administration. I still remember something from Microsoft Windows 9x, NT, 2k and XP administration

I hope that diversity of environments and technologies I used help me acquire knowledge which tool to use for particular problem. I hope that I am more than a good coder – I can design complex code and understand a bit of astronomer or scientists work. I hope I am strong team player, supporting and taking care of advices of other team members.

## Languages

<b>Czech</b>	native language
<b>English</b>	advanced
<b>Spanish, French, German</b>	basic knowledge

## Employment

*January 2005 – December 2006*

### **ISDC - INTEGRAL Science Data Center, Versoix, Switzerland**

Work for Czech Astronomical Institute as member of ISDC. Design, code and test Perl-based CGI application for archive access. I also code some image-analysis and other tools.

*October 2003 – December 2004*

### **Intax s.r.o., Praha**

Work on contract as consultant and programmer for a Prague-based software company, which focuses on the programs for government use.

*June 2003 – December 2007*

### **Astronomical Institute of Czech Republic, Ondřejov**

Work in the ISDC 2, help with Linux administration, and further improvement of the

RTS2. I helped with deployment of RTS2 in Spain (BOOTES 1, BOOTES 2 and BOOTES-IR) and for Pierre-Auger observatory (automatic photometer FRAM).

*February 2001 – June 2003*

**Dresdner Bank AG, Frankfurt am Main**

I worked on contract for the IT project oskar at “System Development Unit” (Entwicklung und Anwendungs Architektur). I administrated and further developed document management and generating system Shore, which uses ObjectStore database. I programmed tools for internal use.

*1996-2001, 2003-2004*

**Štefánik Prague Observatory at Petřín Hill**

I work part-time as tourist guide.

## Education

*2006 – present*

**GACE, University of Valencia; IAA – CSIC, Granada; University of Granada, Spain**

Grant for a doctorate on control of the robotics telescopes network. Courses on soft computing.

*1996 – 2003*

**Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic**

Master degree in computer science.

## References

*RTS2 based (<http://rts-2.sf.net>)*

**LSST testing lab, Brookhaven National Laboratory, NY, USA** – deployment of RTS2 as master controller for the lab, design and coding of drivers for various sensors, synchronization of image acquisition and data taking.

**BOOTES 1,2,IR telescopes, Spain** – deployment of RTS2 for telescope control, design of custom drivers

**BART and BART 50 cm telescopes, Czech Republic; Watcher telescope, Boyden, South Africa; FRAM telescope, Malargue, Argentina** – deployment of RTS2.

*Other*

**ISDC, Versoix, Switzerland**

**INTAX s.r.o., Prague, Czech Republic**