

Daniel Davídek

Objectives

Programming and rapid development. 3D printing Time efficient use of technology in working environment. Robotics and embedded microcontroller systems.

Personal

1991–28–01, Přerov, Czech Republic camp-leader, guitar & singing, Ultimate, juggling, socializing

Contacts

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CV up to date: 30-03-2017

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Doctoral [Phd.] (full-time): Computer Vision Group, BUT, Brno

Masters [Ing.] (full-time): Cybernetics, Automation and Measurement, BUT, Brno

Bachelors [Bc.] (w/honors): Automation and Measurement, BUT, Brno

2015−XX

2015−ZX

2015−ZX

2010−2015

Experience
Courses
Competitions
Articles
Conferences

Engeto Academy - Python intermediate course 3 lectures, Brno

2017

Conferences & articles

2016

- **EEICT** Image Processing Algorithm Visualiser (IPAV) Python3, OpenCV3, kivy, camera
- PDeS Contour silhouette back projection based multiple camera convex hull reconstruction
- Mendel Odometer module for mobile robot with position error estimation

Masters thesis - Advanced Visual Telepresence Final mark: B, pdf: goo.gl/GZZIKr

2015 May 2014

Freescale Semiconductor 6 months (part-time), Brno

• Processor Expert development, FSL devel. boards testing and PEx support

Robotic day in Prague 2014 mini-sumo robot - competition

• Software engeneer and tester, C-language, Jira, Accurev, git

Q2 2014

Fellowship with CVVI 3 months (part-time), Brno

Q2 2013

STM8 program & state machine, PCB with GSM-module, C# GUI with image editor

Bachelor thesis - Odometric module for mobile robot Final mark: A, pdf: goo.gl/fvKPjM 2013

Architectures for RT processing for robotics 12-day mechatronics course, Dresden Q3 2012

ČEZ summer-school 2-week educational course, Dukovany

Q3 2012

GE-Foundation Scholar-Leaders program 10-day self-development course, Budapest

Robotic day in Prague 2012 mini-sumo robot - competition (5th place)

Q2 2012 Q2 2012

Knowledge & Skills

Programming: { solid: [C, C++, Python3+, Micropython, C#, MatLab, AutoHotKey, LATEX], basic: [PhP, Bash, Vim-

Script, win-cmd, MySQL], devices: [RaspberryPi, STM32, STM8, ATMega, Android, win7, xubuntu

alike], py: [kivy, tkinter, blender-api, numpy, cv2, pygame, pandas, flask, redis] }

Visual design: Blender, OpenSCAD, SketchUp, Gimp, Inkscape, Pencil drawing, Flash animation, Adobe Premiere

Electronics : Eagle, SMD soldering, Digital MCU PCB design, Oscilloscope measurement

Protocols: { bitbanged : [UART, I2C], used : [SPI, RS232, RS485, SSH, FTP] }

www&data: WordPress, Flask, Drupal, git, svn, AccuRev

Math&physics: Calculus, Signal processing & regulation, filtering FFT, 3D graphics geometry matrices, national physics

competition (2009)

Sensors: wide spectrum of common physical and electrical sensor construction and function knowledge

Visual processing: OpenCV3, Matlab, common image processing algorithms knowledge, multiview 3D reconstruction,

multiple-camera calibration

Neural networks: MATLAB subject in school - tought exercises (2016)

Robotics: common path planning, localisation and map creation, state control

Exploited devices: Ultrasound, Camera, Gamepad, LCD1602, RTC, DC and stepper motors, 3-axis accelerometer

Languages: Czech, English, Russian, French, Slovak

Driver's license: B