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EDUCATION

Massachusetts Institute of Technology, Class of 2013

Cambridge, MA (USA)

- B.S. in Electrical Engineering and Computer Science (EECS) and Minor in Mathematics, June 2013
- Coursework: Algorithms I and II, Software Development, Computer Systems Engineering, AI, Machine Vision, Signals and Systems I and II, Microprocessor Project Lab, Computer Vision, Graphics, Computer Systems Security, Design for Manufacturing, Educational Game Design, Linguistics, Probability
- Certificate in Advanced Undergraduate Research in EECS
- GPA: 4.5/5.0

EXPERIENCE

MEET (Middle East Education through Technology)

Jerusalem, Israel

- Head of curriculum and computer science instructor, June 2013 - present
- Develop and manage 3-year computer science curriculum for high school students with the goals of learning python, web development, and technical teamwork skills
- Teach Israeli and Palestinian high school students computer science (python, web development) to empower them to create social, political, and economic change in the region

Computer Graphics Group, CSAIL, MIT

Cambridge, MA (USA)

- Quanta Research Fellow for Advanced Undergraduate Research, September 2012 - June 2013
- Design, build, and test an iOS app to accurately perform rephotography

Computer Vision Group, Universidad Politecnica de Madrid

Madrid, Spain

- Research Fellow, June - July 2012
- Develop an optimization algorithm for drift correction in image mosaicing taken from videos from UAVs

Autotegrity

Cambridge, MA (USA)

- Optimization and analytics intern, June 2011 - August 2011
- Analyze and prepare a report on gender trends in relation to used car buying habits
- Develop a model to classify car-buying intent of a user based on search query data from advertisement clicks

SKILLS

- Languages: English (native), Russian (proficient), Spanish (proficient)
- Programming: C, C++, C#, Java, Python, HTML/CSS, JavaScript/jQuery, MATLAB, 8051 assembly, Objective-C
- Tools: git, SVN, OpenCV, OpenGL ES, cron, L^AT_EX, MySQL, Linux and Windows OS, bash, Mathematica

ACTIVITIES AND INTERESTS

- MIT Outing Club: Desk captain and Circus Organizer (2012) - run the gear rental desk and organize large monthly trips for MIT students
- MIT Educational Studies Program: Chair (2011) - oversee organization of educational programs for middle and high school students (<http://esp.mit.edu>); Splash Director (2010) - organize a weekend academic program at MIT for 2200+ middle and high school students
- Learning Unlimited: mentor new Splashes starting at Brown University, Columbia University, and Worcester Polytechnic Institute (<http://www.learningu.org/>)
- Teaching: classes on recreational mathematics and computer vision for MIT ESP's programs
- Hobbies: hiking, climbing, slacklining, classical guitar, game design, Arduino hacking
- Github: <http://github.com/mprat>