Dimitar Dimitrov

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Education

FRANKLIN W. OLIN COLLEGE OF ENGINEERING, NEEDHAM, MA *May 2017*

Candidate for Bachelor of Science in Electrical and Computer Engineering

Recipient of 50% tuition merit scholarship

Experience

ONION CORPORATION, BOSTON, MA

Electrical and Software Engineering Intern *June 2014 – August 2014*

- Extensively contributed to the creation and development of the Onion Omega board
- Contributed to development of current back-end to Onion's cloud-based Internet of Things platform (including learning enough JavaScript and Node.js in three days); designed, created and managed demos

RUSSIAN SCHOOL OF MATHEMATICS, NEWTON, MA

Teacher *September 2012 – present*

- Teach 32 5th and 8th grade students in math one day a week
- Develop parts of the curriculum; assign and grade work; administer tests

Tutor *September 2009 – June 2014*

- Taught K-12 students in all math subjects, including calculus

MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MA

Cutaneous Biology Research Center

Bioinformatics Research Intern *August 2012 – September 2012*

- Analyzed the expression profile of five genes of interest in a panel of microarray gene expression datasets to determine their role in discriminating Triple-Negative Breast Cancer and thus potential to act as therapeutic targets
- Provided substantial supportive evidence for a grant application submitted to NIH

OLIN AERO, NEEDHAM, MA

Co-Leader and Director of Electrical Engineering *September 2013– present*

- Member since the club's foundation, co-leader since September 2014
- Creating an unmanned aerial vehicle and developing vision processing, communications and automation

OLIN BAJA, NEEDHAM, MA

Electrical Engineer *September 2014 – present*

- Developing embedded processing and real-time display of vehicle sensor data

FRANKLIN W. OLIN COLLEGE OF ENGINEERING, NEEDHAM, MA

Course Assistant *February 2014 – present*

- Assisted in teaching a Linear Algebra course (Spring 2014) and a Software Design course (Fall 2014)

Projects

ONION OMEGA BOARD *July-August 2014*

- Developed an OpenWRT-based OS for a lightweight development board
- Wrote and integrated a Python client for Onion's IOT platform and a framework for user-uploaded Python scripts

Designed affordable sensors for tracking room usage and a front-end displaying current and historical usage (2014)

Designed and constructed an 8-bit Digital-to-Analog converter out of gates without any prior architecture experience (2013)

Designed a battery-powered op-amp guitar amplifier and printed it on a circuit board (2009)

Skills

Extensive experience in Python, C, GNU/Linux, HTML5/CSS and with electronic circuitry and embedded systems

Languages: Bulgarian (native), Czech (fluent), French (spoken and written)