Eldor Bekpulatov

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Cornell University, Ithaca, NY

BS in Electrical and Computer Engineering | Minor in Business May 2020

*GPA: 3.44/4.00*

# RELATED EXPERIENCES

Gamyte, LLC, *New York, NY*

*Software Engineering Intern June 2018 – Present*

* Develop a proof-of-concept project to analyze architectural plans through the use of Computer Vision.
* Train TensorFlow’s Faster-RCNN object detection model to detect tables, floor-plans and symbols.
* Extract text features using Google’s Cloud Vision API and detect geometric attributes using OpenCV.
* Apply custom logic to analyze and postprocess the extractions and reformat the findings.
* Cross reference findings with an SQL Databases in order to produce bid estimations.

AguaClara Project Team, *Ithaca, NY*

*We are creating a second-generation open-source design API within Fusion 360 and OnShape to be used by international partners to auto-generate the design parameters and model renderings of water filtration plants.*

*Research Adviser May 2018 – December 2018*

* Coordinate and lead monthly meetings with team leads to discuss progress reports.
* Oversee and delegate responsibilities to seven sub-teams consisting of over 25 students.
* Develop and administer member trainings and hold bi-weekly feedback sessions with each member.

*Software Team Member* *January 2018 – May 2018*

* Integrated front-end web interface to capture user defined parameters.
* Handled requests to designated servers to retrieve appropriate model renderings.

Staples, Inc. *Brooklyn, NY*

*Tech Sales Associate June 2016 – August 2017*

* Positively contributed to the customer experience by providing friendly, knowledgeable, and professional service.
* Exceeded protection sales quotas by offering warranties on electronics consistently (~11% protection/cost).
* Set the highest number (26 enrollments/week) of More Account Credit Card service enrollments in the branch.

Qi Advisors Group, LLC, *Brooklyn, NY*

*Start-up Assistant May 2016 – June 2016*

* Placed phone calls to potential clients and offered financial solutions on individual basis*.*
* Handled client portfolios associated with life insurances, retirement plans, and annuities.
* Coordinated between the client and the company to conduct procedural tasks, such as medical exams.

PROJECTS

*Team Captcha Robot* ([*link*](https://eldorbekpulatov.github.io/ece3400/index.html)) *August 2018 – December 2018*

* Developed a fully functional, autonomous, maze-exploring robot that competed in Cornell’s 2018 Robotics Day competition as part of the ECE 3400 class. The robot features 3D printed chassis parts, integrated sensors for line and wall detection, IR and audio processing using FFT, image processing using FPGA Boards, and algorithmic path planning in Arduino UNO. Documentation link provided.

*ClientBase.Space* ([*link*](https://clientbasespace.herokuapp.com/)) *December 2017 – May 2018*

* Subscription based client management WebApp that allows users to manage portfolios containing documents and schedules. Planner/Calendar feature incorporated to help visualize entries. Incorporates AJAX techniques to communicate with main server for real time updates. Django, Python based. Link provided.

*Experience with Altera Quartus II in Series of Lab January 2017 – May 2017*

* Analyzed and synthesized Single Cycle Processor/State Machine designs, while performing timing analysis, examining RTL diagrams, and simulating vector waveforms. Used Verilog and logic circuit visual editors for hardware description. Used Altera Cyclone IV for code deployment and simulations.

SKILLS

Languages: Fluent in Uzbek, Conversational in Russian

Programming: Python, C++, Java, JavaScript, Verilog, MATLAB, SQL, HTML, CSS

Interests: Machine Learning, Computer Vision, Database Management, Signal Processing, Web Development