BOLAT TLEUBAYEV
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CAREER OBJECTIVE

Accomplished, persistent and energetic recent graduate looking for research and education opportunities in Machine Learning, Computer Vision, and Engineering fields. Resourceful and diligent, with outstanding communication skills.

EDUCATION

2014-2015   **Foundation in Math and Physics**, Nazarbayev University Centre for Preparatory Studies, Nur-Sultan, Kazakhstan

2015-2019   **Bachelor of Science in Robotics and Mechatronics**, Nazarbayev University, Nur-Sultan, Kazakhstan

Relevant modules: Statistical Methods and Machine Learning, Image Processing, Human-Robot Interaction, Performance and Data Structures, Linear Algebra with Applications, Discrete Mathematics, Introduction to Differential Equations, Calculus I and II

WORK EXPERIENCE

from August 2019   **Research Assistant and Teaching Assistant**, Nazarbayev University Human-Robot Interaction Laboratory, Nur-Sultan, Kazakhstan
- Conducting a joint research with EPFL Chili Lab on CoWriter project aimed on detection and therapy of dysgraphia in children
- Development of interactive therapeutic software for Ubuntu-based tablets
- Collection and analysis of handwritten data from children
- Work as a Teaching Assistant on ROBT205 Signals and Sensing with Lab course

Spring 2019   **Intern at Computer Vision Department**, KazAeroSpace LLP, Nur-Sultan, Kazakhstan
- Participation in development of Unmanned Aerial Vehicle for geomagnetic scanning
- Development of a software for interactive 3D city planning model
- Implementation of Computer Vision algorithm for human detection

August 2018   **Intern at Information Systems Control department**, Subordinate organization of President's Affairs Administration of the Republic of Kazakhstan JSC "Engineering and Technology Center", Nur-Sultan, Kazakhstan
- Assisting in Information System Management
- Assisting with various organizational tasks of the department
- Analyzing Information System based on given criteria

July 2018   **Intern at Human Resources department**, Korkem Telecom, Nur-Sultan, Kazakhstan
- Conducting selection of possible candidates for IT position according to specified parameters
- Helping in organization of events aimed on Corporate Culture development
- Helping in development of an agenda for employee motivation

June 2017   **Workshop participant**, Tien-Shan Mountain Station of Physical Institute of the Russian Academy of Sciences, Almaty, Kazakhstan
- Attended lectures on Quantum and High Energy Physics
- Worked with "Horizon-T" Air Shower detection device
- Examined the principles of work of the "Horizon-T" for further research

VOLUNTEERING

May 2016   **Organizer, manager of Liaison Officers**, Astana Economic Forum, Nur-Sultan, Kazakhstan
- Coordinating Liaison Officers assigned to VIP guests
- Managing guests' documentation

June 2013   **Translator**, Kazakh-Slovene Business Forum, Nur-Sultan, Kazakhstan
- Facilitating interaction between Kazakh and Slovene businessmen
- Translating agreements and conversations

PUBLICATIONS

Tleubayev, Bolat, et al. "Robot-Assisted Therapy for Children with ADHD and ASD: a Pilot Study." *Proceedings of the 2019 2nd International Conference on Service Robotics Technologies*. ACM, 2019.

Sandygulova, A., Zhexenova, Z., Tleubayev, B., Nurakhmetova, A., Zhumabekova, D., Assylgali, I., ... & Zhakenova, A. "Interaction design and methodology of robot-assisted therapy for children with severe ASD and ADHD." *Paladyn, Journal of Behavioral Robotics* 10.1 (2019): 330-345.

Sandygulova, A., Johal, W., Zhexenova, Z., Tleubayev B., Zhanatkyzy A., Turarova A.,Telisheva Z., … & Dillenbourg P. "CoWriting Kazakh: Learning a New Script with a Robot" *ACM/IEEE International Conference on Human-Robot Interaction 2020*

Tleubayev, B., Zhexenova Z., Asselborn T., Johal W…& Sandygulova A. "CoWriting Kazakh: Learning a New Script with a Robot-Demonstration" *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction 2020*

Zhexenova Z., Tleubayev, B., Zhanatkyzy A., Turarova A., Telisheva Z …& Sandygulova A. "CoWriting Kazakh: Learning a New Script with a Robot-Video" *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction 2020*

[Submitted] Asselborn T., Zhexenova Z., Tleubayev B., Sandygulova A., Johal W., Dillenbourg P. "The transferability of handwriting skills: from the Cyrillic to the Latin alphabet." *npj Science of Learning*

CONFERENCES

March 2019   **Presenter**, oral presentation "Robot-Assisted Therapy for Children with ADHD and ASD: a Pilot Study", International Conference on Service Robotics Technologies, Beijing, China
- Best presentation in "Intelligent Robot and Artificial Intelligence Technology" section

March 2020   **Presenter**, video presentation "CoWriting Kazakh: Learning a New Script with a Robot-Demonstration", ACM/IEEE International Conference on Human-Robot Interaction 2020
- Best Demo Award - Reviewers Choice

ADDITIONAL SKILLS AND ACHIEVEMENTS

September 2018   **Startup Challenge Finalist**, Startup Weekend by Astana Innovations Challenge and Techstars, Nur-Sultan, Kazakhstan
- Development of a face and posture recognition system prototype
- Presenting the prototype in front of investors and experts in the field
- Networking and communication with startup community

August 2018   **Forum participant, discussion group leader**, The 29th International Youth Forum: "The 4th Industrial Revolution with Youth: Life in the Future", Seoul and Goyang, South Korea
- Leading a "Big Data and Artificial Intelligence" discussion group
- Evaluating various technologies within the framework of Industry 4.0
- Presenting outcomes of discussions to other participants

December 2013   **English as a Second Language Course participant**, Saint Johnsbury, Vermont, United States of America
- Attending classes at Saint Johnsbury Academy
- Participating in extracurricular activities of the academy

Summer 2012   **English Language Course participant**, Bournemouth, United Kingdom
- Attending classes at Education First Bournemouth Summer School
- Participating in cultural programs

August 2011   **Web Design Course participant**, Saint Petersburg, Russia
- Attending classes at Saint Petersburg State University of Information Technologies, Mechanics and Optics
- Acquiring web-design skills and knowledge

CERTIFICATES

April 2018   Online Course on Social and Behavioral Research from Collaborative Institutional Training Initiative (CITI Program), valid until April 2021

Summer 2016   EXPO-2017 Supervisors Training Certificate, Nur-Sultan, Kazakhstan

LANGUAGES

Native: Russian, Kazakh

Full professional proficiency: English (IELTS 7.5/C1, valid until May 2021, TOEFL 101, valid until November 2021)

Limited working proficiency: German (A1.1)

TECHNICAL SKILLS
Programming languages and mathematical packages: Swift, Python, Flutter, MATLAB/Octave CLI, C, Arduino C
Industrial automation programming: Siemens TIA Portal, CODESYS, Festo FluidSIM

HOBBIES AND INTERESTS
I enjoy trainings in Mixed Martial Arts club because I think that such sport gives you another perspective on challenges you encounter in your life. I also have a keen interest in Ballroom Dances due to their relaxing effect.
I am also interested in psychology, currently finishing a course on analysis and interpretation Minnesota Multiphasic Personality Inventory (adapted 1st edition for Russian speaking population) test.
In my free time over the last half a yearI learned Swift and Flutter programming languages and could publish two applications on the App Store. In Swift I can work with Multiple MVCs, CoreData, MapKit, Firabse API, CloudKit, MapKit, WebKit, JSON files, Document Based Apps. In Flutter I am familiar with SQLite persistence, Firebase API, HTML requests. I have no practical experience neither salary for this, so I think that this is my hobby.

2017 - 2019	**Club administrator, co-head**, Nazarbayev University Mixed Martial Arts Club
	- Organization of university-wide live broadcasts of fighting events
	- Management of the club activity
December 2016	**Performer**, IX Winter Charity Ball, Nur-Sultan, Kazakhstan
	- Participation in fundraising for inclusive education fund
December 2014	**Performer**, Ball of the First President, Nur-Sultan, Kazakhstan
March 2014	**Performer**, Charity Tulip Ball, Nur-Sultan, Kazakhstan
	- Participation in fundraising for the fund of women in critical situations
May 2009	**2nd place in open Judo contest**, Nur-Sultan, Kazakhstan