



Adilzhan ADILKHANOV



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 Almaty city, Kazakhstan

EXPERIENCE

Researcher at Tactile Robotics Laboratory (tact.nu.edu.kz)

My research in tactile robotics and haptics brings off 4 scientific publications in top engineering journals and conferences and revealed novel sensing techniques for robots as well as human tactile perception. As a part of these works, I've created advanced robotic systems for HRI tasks and haptic interfaces for virtual environment apps by applying my skills in mechatronics, programming, and data analysis.

01/2018 – 09/2021
Nazarbayev University
Astana, Kazakhstan

Embedded Software Engineer - Internship

Created a Hardware-in-the-Loop (HIL) test bench that allows validation of the company's new software. The test bench consists of high-frequency data acquisition boards and a custom-designed PCB. Carefully selected electronic components, proper signal processing program and handy API in Python allow testing software with high accuracy.

02/2022 – 08/2022
Actronika SAS
Paris, France

Data Analyst - Internship

Helped the national corporation's top managers to understand and use HR data more effectively by performing data analysis and creating interactive dashboards in Qlik Sense.

11/2019 – 04/2020
KazMunayGas
Astana, Kazakhstan

EDUCATION

09/2021 – 09/2022

Grenoble INP - UGA
Grenoble, France

Degree: **Master of Science in Mobile, Autonomous and Robotic Systems**
Tuition fees and stipend covered by the Campus France Scholarship

08/2020 – 06/2022

Nazarbayev University
Astana, Kazakhstan

Degree: **Master of Science in Robotics**
Tuition fees, stipend and accommodation expenses covered by National Scholarship

08/2016 – 06/2020

Nazarbayev University
Astana, Kazakhstan

Degree: **Bachelor of Science in Robotics & Mechatronics**
Tuition fees, stipend and accommodation expenses covered by National Scholarship

SKILLS

Languages

French (Beginner), English (Advanced), Russian & Kazakh (Native)

Programming Languages

C/C++, Python, R

Operating Systems

Windows, Linux

Computer Aided Design

SolidWorks (CAD, CAM); Autodesk Eagle (PCB design)

MATLAB & Simulink

Signal/Image Processing; System Control Design; Data Acquisition & Analysis

Middleware

Robot Operating System (ROS)

Methods & Libraries

Machine Learning (Keras, TensorFlow), Image Processing (OpenCV), SLAM

Programs & Environments

Microsoft Office, LaTeX, Adobe Photoshop, Git

PLC Programming

CODESYS, Siemens TIA Portal

Hardware

Universal Robots, Franka Emika; Arduino, BeagleBone, Teensy | soldering

EXTRACURRICULAR

Co-Founder and Stage Director of “LCA student club” at Nazarbayev University

“Light.Camera.Action” student club was established for the creative community of the university who is interested in filmmaking. Being a part of this team, I organized film festivals at the university and filmmaking tutorials for beginners, directed non-commercial media production. One of our short films received a country-wide award from film industry experts.

Participant of Work & Travel USA 2017 program (Virginia Beach, VA, United States of America)

Got acquainted with American culture and way of life by working legally in the American company Kohr Bros, a frozen custard store. Being a part of the team, I supported the daily work of brunch - food preparation, customer service, cleanliness. My high productivity allowed me to get extra hours and earn more than the base rate.

SOFT SKILLS

I am the eldest son in my family, so I believe this is one of the reasons of my personality. On the other hand, it took a great time and effort to develop other soft skills.

- Hardworking, organized, self-motivated and passionate about getting things done
- Excellent quality assurance skills with great attention to detail
- Problem solving oriented
- Able to learn quickly
- Capable of working as a standout colleague or independently with minimal direction or supervision
- Can manage multiple tasks independently
- Good communication skills - both verbally and in writing

PUBLICATIONS

Haptic Devices: Wearability-Based Taxonomy and Literature Review

Authors: **A. Adilkhanov**, M. Rubagotti and Z. Kappassov

2022

Published in IEEE Access journal, Volume 10

Can a Vibrotactile Stimulation on Fingertips Make an Illusion of Elbow Joint Movement?

Authors: D. Mukashev, **A. Adilkhanov** and Z. Kappassov

2021

Presented on 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2021)

VibeRo: Vibrotactile Stiffness Perception Interface for Virtual Reality

Authors: **A. Adilkhanov**, A. Yelenov, R. Singal, A. Terekhov and Z. Kappassov

2020

Published in *IEEE Robotics and Automation Letters* (Vol. 5, Issue 2, April 2020)

Proceedings of the *IEEE International Conference on Robotics and Automation (ICRA 2020)*

Deformable Object Recognition Using Proprioceptive and Exteroceptive Tactile Sensing

Authors: A. Mazhitov, **A. Adilkhanov**, Y. Massalim, Z. Kappassov and H.A. Varol

2019

Proceedings of *2019 IEEE/SICE International Symposium on System Integration (SII 2019)*