

## PERSONAL INFORMATION

## Alexander Alyukov

📍 apt. 21, 78a Lenina prospect, 454080 Chelyabinsk (Russia)

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✉ alyukovalexandr@gmail.com

## WORK EXPERIENCE

01/09/2014–Present

## Engineer

South Ural State University, Chelyabinsk (Russia)

I participate in two scientific research projects connected with Adaptive Vehicle Suspension, Power distribution in all-wheel drive truck transmissions, Trajectory Control for Wheeled Mobile Robots.

## EDUCATION AND TRAINING

01/09/2014–Present

## PhD Student

South Ural State University

76 Lenina prospect, 454080 Chelyabinsk (Russia)

www.susu.ac.ru

01/09/2009–01/07/2014

## Specialist's degree in the field of Control and Computer Science in Engineering Systems

South Ural State University

76 Lenina prospect, 454080 Chelyabinsk (Russia)

www.susu.ac.ru

Mathematics, Computer Science, Theoretical Mechanics, Electronic Engineering, Automatic Control Theory, System Simulation, Electromechanical Control Systems, etc.

## PERSONAL SKILLS

Mother tongue(s)

Russian

Communication skills

Sociable and friendly

Job-related skills

- experienced with methods of applied mathematics in the field of nonlinear system; analysis, methods of phase space, analysis of stability, and methods of functional analysis;
- experienced with methods of control in affine systems, methods of dynamic linearization;
- experienced with computer programs Matlab and Simulink;
- experienced with computer programs C/C++;
- experienced with systems Open Source Autopilot Systems (ArduPilotMega, Pixhawk);
- good knowledge of computer systems and networks, and their administration.

Computer skills

- Matlab/Simulink;
- Mathcad;
- Vissim;
- ISIS Proteus;
- Programming (C/C++, C#, Matlab);
- Trace Mode.

Driving licence B

#### ADDITIONAL INFORMATION

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##### Publications

1. Alyukov A.S. Simulation of the wheeled mobile robot dynamics in Matlab/Simulink. Materials of the X International scientific and practical conference, "Prospects of world science", Vol. 8, Mathematics. Physics. Modern information technologies. Technical sciences. Construction and architecture. England, Sheffield, 2014.
2. Alyukov A.S. Design of control system for wheeled mobile robot. Materials of the X International scientific and practical conference, Czech Republic, Prague, 2014, P.12-17.
3. Alyukov A.S. On the question of an unsearched algorithm to identify the adaptive model. IX International science and practical conference "Actual scientific problems", Vol. 25, Technical Sciences, Check Republic, Prague, 2013, P. 83-88.
4. Alyukov A.S. The technique of tuning the controller parameters on the transient response of the control object with automatic compensation. IX International science and practical conference "Science in XXI century", Vol. 14, Technology, Bulgaria, Sofia, 2013, P. 65-69.
5. Alyukov A.S. Improving of designs of dynamical stabilized robotic systems on the base of sphere wheel. VII International science and practical conference. Vol. 48, Sofia, 2012. P. 30-33.

##### Others

- from June to September 2012 – worked for four months in the USA according to student exchange program called "Work &Travel" (I worked as a receptionist in a hotel);
- from June to September 2011 – worked for four months in the USA according to student exchange program called "Work &Travel" (I worked in a restaurant);
- many times I have been a winner and prizewinner of regional and Russian competitions in the intellectual game "What? Where? When?"