

Anastasiia Fursova

Gender: female

Date of Birth: 04.06.1993

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Phone: 8 (985) 715 25 17

Languages: Russian, English

Research area: manufacturing, robotics, mechanical engineering

Education:

Bachelor Degree. Major is robotics. The Saint Petersburg Polytechnic University (2011-2015).
Thesis Title: Four-legged robot control algorithm

Master Degree. Major is space. The Skolkovo Institute of Science and Technology (2015-2017).
Thesis Title: Development of the CAD models and mechanical analysis of thermomechanically resistant electrostatic Cassinian ion trap with precise electrode surfaces

PhD. The Skolkovo Institute of Science and Technology (2017-Present).
Thesis Title: Development and testing of the miniaturized high-resolution multiple electrode harmonized Kingdon traps.

Work experience:

Internship in the Central Scientific Research Institute of Robotics and Technical Cybernetics (June-July 2014). Responsibility: Pressure Sensor Development.

Internship in xTurion (July – August 2016). Responsibility: Smart House Robot Development.

Projects:

#”1”

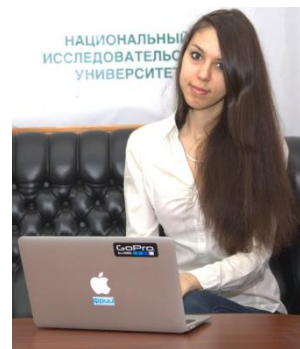
Title: Development of the CAD models and mechanical analysis of thermomechanically resistant electrostatic Cassinian ion trap with precise electrode surfaces.

Duration: January 2017– Present

Description: Development of the CAD models and mechanical analysis of Cassinian Ion Trap. Create high precise 3D Model, preparing it for prototyping (3D Printer)

Results: finished.

Responsibilities: Development of Cassinian Ion Trap 3D model with high precise surfaces. Design fasteners for it that meet all thermal and vibration requirements (Launch, Work Time,



Landing). Thermomechanical Analysis of Ion Trap. Preparing 3D Model for prototyping and writing list of recommendations for 3D printing.

#”2”

Title: Analysis of precision decrease during design of 3D Model from Math Model.

Duration: February – April 2017

Description: Low precision of the math model is the main problem of low precision 3D Model that cannot be completely solved. On the step of 3d printing detail precision decrease more because of 3D printer accuracy. Analyze of precise decreasing between phases of project realisation is the first step to solving this problem.

Results: finished.

Responsibilities: to analyze precise decreasing during the model conversation between the phases of the product realization.

#”3”

Title: Development of the Skoltech NanoSatellite mission with biology experiment “Astronaut-on-a-chip” on the board.

Duration: March – December 2017

Description: The goal of the project is to analyze thermomechanical scheme induced on the Astronaut-on-a-Chip experiment being developed for the first Skoltech NanoSatellite mission and to verify that the proposed mechanical design of the Astronaut-on-a-Chip payload will meet the intended system requirements.

Results: finished.

Responsibilities: To analyze the thermomechanical environment of the Astronaut-on-a-Chip experiment. To verify the Astronaut-on-a-Chip experiment mechanical design meet the intended system requirements.

#”4”

Title: Development of the satellite system (study project).

Duration: November – December 2015.

Description: Development of the satellite system consist of two satellites: communication and Earth observation.

Results: finished.

Responsibilities: Attitude and Dynamics Control subsystem, Structure Subsystem.

#”5”

Title: Control of Webot robot by anthropomorphic robot-operator.

Duration: November – December 2015

Description: Control of Webot robot by anthropomorphic robot Nao. Nao movements are identified by Kinect.

Results: in progress

Responsibilities: Robot programming and development of server that send information from Kinect to Webot.

Computer skills: Microsoft Visual Studio, Microsoft Project, KOMPAS-3D, AutoCAD, SolidWorks, PTC Creo, AutoCad Inventor, MathCAD, MathLab, Altium, Keil, RobotC, Choregraph, NASTRAN.

Soft skills: teamwork, team leadership, team building, team motivation, team management, project planning, project management, project coordinator, leadership, event management , time management, public speaking.

Volunteering: Board of European Students of Technology. Active member (September 2013 - Present), Vice-president for Corporate Relations (July 2014 – July 2015).