

## Jeeseop Kim

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CONTACT INFORMATION	310 Goodwin Hall, Virginia Tech Blacksburg, VA 24060, USA	<a href="https://jeeseop.github.io">https://jeeseop.github.io</a> jeeseop@vt.edu
EDUCATION	<b>Ph.D. Candidate in Mechanical Engineering</b> advisor: Prof. Kaveh Akbari Hamed Virginia Polytechnic Institute and State University, USA	September 2017 - Expected in 2022
	<b>M.S. in Transdisciplinary Studies (Intelligent Systems)</b> advisor: Prof. Jaeheung Park Seoul National University, South Korea	March, 2017
	<b>B.S. in Mechanical and Aerospace Engineering</b> Seoul National University, South Korea	March, 2014
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> funded project from National Science Foundation (NSF) Dept. of Mechanical Engineering, Virginia Tech, Blacksburg, USA Advisor: Prof. Kaveh Akbari Hamed	2019 - Present
	funded project from Office of Naval Research (ONR) Dept. of Mechanical Engineering, Virginia Tech, Blacksburg, USA Advisor: Prof. Tomonari Furukawa	2017 - 2019
	funded project from Mahindra & Mahindra Dept. of Mechanical Engineering, Virginia Tech, Blacksburg, USA Advisor: Prof. Tomonari Furukawa	2018 - 2019
	participating MBZIRC 2020 Dept. of Mechanical Engineering, Virginia Tech, Blacksburg, USA Advisor: Prof. Tomonari Furukawa	2018 - 2019
	funded project from National Research Foundation of Korea Dept. of Transdisciplinary Studies, Seoul National University, South Korea Advisor: Prof. Jaeheung Park	2015 - 2017
	funded project from Samsung Dept. of Transdisciplinary Studies, Seoul National University, South Korea Advisor: Prof. Jaeheung Park	2014 - 2017
	participating DARPA Robotics Challenge (DRC final) Dept. of Transdisciplinary Studies, Seoul National University, South Korea Advisor: Prof. Jaeheung Park	2014 - 2015
	<b>Research Intern</b> Dynamic Robotic Systems Lab, Seoul National University, South Korea Supervisor: Prof. Jaeheung Park	2013

Biorobotics Lab, Seoul National University, South Korea  
Supervisor: Prof. Kyu-Jin Cho

2012

TEACHING  
EXPERIENCE

**Teaching Assistant**

Dept. of Mechanical Engineering, Virginia Tech, Blacksburg, USA  
ME5524: Bayesian Robotics  
ME5984: SS:Advanced Experimental Robotics

Dept. of Transdisciplinary Studies, Seoul National University, South Korea  
493.601: Convergent Robotics Technology  
493.611: Dynamics and Control of Robot-Environment Interaction

TECHNICAL  
SKILLS

**Operating Systems:** Ubuntu(Linux), ROS, Windows  
**Programming Language:** C/C++, Python, MATLAB, L<sup>A</sup>T<sub>E</sub>X  
**Programming Libraries:** Eigen Library, RBDL, Boost  
**Design and Simulation Software:** Solidworks, Unigraphics(NX), Cura  
**Others:** 3D printing, Machine shop

PATENT

**Jeeseop Kim, et al.** Automatic cardiopulmonary resuscitation device and control method therefor, 2019. No. 20190029919A1 (US Patent), No. 108697572A (CN Patent), No. 3409258A1 (EU Patent)

**Jeeseop Kim, et al.** Apparatus for Automatic Cardiovascular Pulmonary Resuscitation, 2016. Korea Patent No.10-2016-0172286.

INTERNATIONAL  
JOURNAL ARTICLES

K. A. Hamed, **J. Kim**, A. Pandala. Quadrupedal Locomotion via Event-Based Predictive Control and QP-Based Virtual Constraints, IEEE Robotics and Automation Letters, Vol. 5, No. 3, pp. 4463-4470, 2020.07

**J. Kim**, Y. Omori, A. Sifat, and T. Furukawa. Adjustably Designed Torque Controlled Humanoid Platform, International Journal of Mechanical and Production Engineering, Vol. 7, No. 2, pp. 52-57, 2019.05

INTERNATIONAL  
CONFERENCE  
ARTICLES

**J. Kim**, Y. Omori, A. Sifat, and T. Furukawa. Adjustably Designed Torque Controlled Humanoid Platform, International Conference on Control, Automation, Robotics and Vision Engineering, Washington DC, USA, 21-22 Nov, 2018.

**J. Kim**, M. Kim, and J. Park. Improvement of Humanoid Walking Control by Compensating Actuator Elasticity, International Conference on Humanoid Robots, Cancun, Mexico, 15-17 Nov, 2016.

J. Jung, **J. Kim**, S. Kim, W. Kwon, S. Na, K. Kim, J. Lee, G. Suh, and J. Park. Application of Robot Manipulator for Cardiopulmonary Resuscitation, International Symposium on Experimental Robotics, Tokyo, Japan, 3-6 Oct, 2016.

DOMESTIC  
CONFERENCE  
ARTICLES

**J. Kim**, M. Kim, and J. Park, Improvement of Humanoid gait stability using reduction gear deformation model, The 31st Institute of Control, Robotics and Systems (ICROS), Korea, 2016.

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