Junhyeok **Ahn**

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Education

University of Texas at Austin — *Austin, Texas, U.S.A*

Ph.D. Student — *Aug. 2016 - Present*

- GPA:3.95/4.0

Hanyang University — *Seoul, S.Korea*

B.S. in Mechanical Engineering — *Mar. 2010 - Feb. 2016*

- GPA:3.75/4.0

Skills

Programming C/C++, Python, Matlab, Vim

Languages Korean, English

Work Experience

Human Centered Robotics Lab in UT Austin — *Austin, Texas, U.S.A*

Graduate Research Assistant — *Sep. 2017 - PRESENT*

- Draco Project
- United States Special Operations Comman Exoskeleton Project

Apptronik Inc. — *Austin, Texas, U.S.A*

Control & Software Engineer — *Jun. 2017 - Aug. 2017*

- Developed high performance poisition and force controller in embedded system and multi degree of freedoms control architectures in Unix system for newly invented Viscoelastic Liquid Cooled Actuator.

Dep. of Management Information System — *Austin, Texas, U.S.A*

Teaching Assistant — *Jan. 2017 - May. 2017*

- Assisted teaching materials on Data Mining (MIS 373).

Firmware Bank — *Seoul, S.Korea*

Internship — *Jan. 2015 - Jul. 2015*

- Processed sensor signals for remote controlled cars and quad-copters.

Publications

Journal Articles

Investigations of a Robotic Testbed with Viscoelastic Liquid Cooled Actuators
Donghyun Kim, Junhyeok Ahn, Orion Campbell, Nicholas Paine, Luis Sentis
CoRR abs/1711.01649 (2017). 2017

Conference Proceedings

Computationally-Robust and Efficient Prioritized Whole-Body Controller with Contact Constraints
Donghyun Kim, Jaemin Lee, Junhyeok Ahn, Orion Campbell, Hochul Hwang, Luis Sentis
arXiv preprint arXiv:1807.01222 (2018). 2018

Investigations of viscoelastic liquid cooled actuators applied for dynamic motion control of legged systems
D. Kim, O. Campbell, J. Ahn, L. Sentis, N. Paine
2017 IEEE-RAS 17th International Conference on Humanoid Robotics (Humanoids), 2017

Presentation

Dynamic Walking Conference — *Stockholm, Sweden*

Presenter for research — *June. 2017*

- Talked about kinodynamic planning for humanoid robot.