Cristian Camilo Beltran-Hernandez

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EDUCATION

OSAKA UNIVERSITY
PhD Student in
Robotics & Automation
From Oct 2019 | Osaka, Japan

OSAKA UNIVERSITY
MEng in Intelligent Systems
Sep 2019 | Osaka, Japan

UNIVERSITY OF LA SABANA
BS in Computer Science
Aug 2013 | Bogota, Colombia

LINKS

Github:// **cambel**
LinkedIn:// **cristianbehe**
ResearchGate:// **Cristian_Beltran**

COURSEWORK

GRADUATE
Reinforcement Learning
Robot Manipulation
Intelligent Systems
Machine Learning

LANGUAGES

Spanish: Native
English: Professional proficiency
Japanese: Conversational

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Python • Android
SQL • Matlab • Javascript
ROS • Arduino
Over 1000 lines:
C# • C++ • Shell • CSS

EXPERIENCE

LA CADENA RETAIL SOLUTIONS | Software Developer
Oct 2016 - Mar 2017 | Bogota, Colombia
- Design and development of an administrative web application. Backend based on Java 8 using Spring framework with Spring Boot, Spring Security, Spring Cloud and Spring Rest. Microsoft SQL Server database. Front-end based on JavaScript ES6, React JS, Redux and Material Design. Communication based on Restful Webservices.

NETLOGISTICS | Software Engineer
Aug 2013 – Mar 2016 | Bogota, Colombia

- Design and implementation of supply chain software, particularly warehouse management systems (WMS RedPrairie / JDA). Multi-language developments: Java, C#, C, Groovy, SQL Server, Oracle SQL and PL SQL.

SF INTERNATIONAL | Software Engineering Intern
May 2013 – Aug 2013 | Bogota, Colombia
- Design, development and implementation of databases based on Oracle SQL and Microsoft SQL Server.
- Software development for IBM applications based on C# and Java.

RESEARCH

ROBOT MANIPULATION LAB | Researcher
Apr 2017 – Present | Osaka, Japan
Working with **Prof Kensuke Harada** and **Fujifilm R&D** to create motion planning solutions for industrial assembly tasks based on Reinforcement Learning techniques.

CAPSAB LAB | Undergraduate Researcher
Jul 2012 – Jul 2013 | Chia, Colombia
Worked with **Andrea Santos** and **Prof Claudia Garzon** to develop **SACVAP FUZZY**, an automated fuzzy logic-based system to control variables for the production of microalgaes.

AWARDS

2019	**Best oral presentation**, The 20th SICE Conference on System Integration, Japan
2019	Finalist of **Best Paper Award** in the IEEE/SICE International Symposium on System Integration (SII), Paris, France
2018	Finalist of International Session **Best Paper Award**, in The 36th Annual Conference of the Robotics Society of Japan (RSJ), Nagoya, Japan
2017-2022	**Academic scholarship** by the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT)

PUBLICATIONS

[1] Cristian Camilo Beltran-Hernandez et al. "Learning Force Control for Contact-rich Manipulation Tasks with Rigid Position-controlled Robots". In: *IEEE Robotics and Automation Letters* 5.4 (2020), pp. 5709–5716.

[2] Cristian C Beltran-Hernandez et al. "Variable Compliance Control for Robotic Peg-In-Hole Assembly: A Deep-Reinforcement-Learning Approach". In: *Applied Sciences* 10.19 (2020), p. 6923.

[3] Cristian C Beltran-Hernandez et al. "Learning to Grasp with Primitive Shaped Object Policies". In: *2019 IEEE/SICE International Symposium on System Integration (SII)*. IEEE. 2019, pp. 468–473.

[4] Mario Arbulu et al. "Industry 4.0, Intelligent Visual Assisted Picking Approach". In: *International Conference on Mining Intelligence and Knowledge Exploration*. Springer. 2018, pp. 205–214.

[5] Cristian C Beltran-Hernandez, Andrea Santos, and Claudia Garzon. "Control de temperatura en un bioproceso utilizando Lógica Difusa". In: *II Congreso Internacional Ingeniería Mecatrónica y Automatización*. CIIMA. 2013.