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: arXiv preprint arXiv:2008.10224 (2020).
- [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: *Il Congreso Internacional Ingeniería Mecatrónica y Automatización*. CIIMA. 2013.