Eiji Onchi

Kansei Design MSc.
Mechatronic Eng.

📅 11 April 1992

📍 Tsukuba, Japan

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About me ———

Born in Japan and raised in Peru, I am a mix between Japanese traditions and Latin American flavor. As a Kansei Designer and Mechatronic Engineer, I combine arts and engineering to study how we interact with our surroundings to create devices and robots that are pleasant to use.

Language ———

(Native) Spanish ★★★★★
English ★★★★★
Japanese ★★★★☆
Korean ★☆☆☆☆

Toolbox ———

Python – Go – C/C++ – C#

Android Dev – R

Arduino – Raspberry Pi

Autodesk Inventor

GIMP – Inkscape

LaTeX

INTERESTS

My research interest is in human-robot interaction design, in particular on how people understand emotions in robots. When I am not researching, I enjoy programming, learning about languages, and cycling.

EDUCATION

since 2019	**Ph.D. candidate in Kansei Design** *Emotional Expressions in Non-Humanoid Robots*	University of Tsukuba
2017-2019	**M.Sc. Kansei Science** Meikeikai Award, MEXT Scholarship	University of Tsukuba
2009-2014	**B.Sc. Mechatronic Engineering** First place of the Science and Engineering Faculty	Pontificia Universidad Católica del Perú
1998-2008	**Middle and High School** First place - 9th, 10th, and 11th year	CEGECOOP "La Unión"

RECENT PUBLICATIONS

JSKE 2019	*Design and Evaluation of a Spherical Robot with Emotion-Like Feedback during Human-Robot Training* Onchi, E; Lee, S.H.	Tokyo, Japan
CHI 2019	*Slow Robots for Unobtrusive Posture Correction* Shin, J.G.; Onchi, E.; Reyes, M.; Song, J.; Lee, U.; Lee, S.H.; Saakes, D.	Scotland, UK
ICIT 2016	*Design and Implementation of a Mechatronic SmartBed for Improved Rehabilitation* Onchi, E; Penaloza, C.; Cuellar, F.	Taipei, Taiwan

PROJECTS

2019	Slow Robots for Unobtrusive Posture Correction	KAIST, South Korea
2018	Behavior Recording Application for Elderly Homes	U. Tsukuba, Japan
2017	Design of the 2020 Olympic Games Mobility	Toyota, Japan
	Interior Design for Level 3 Self-Driving Cars	Toyoda Gosei, Japan
	Mouthpiece Design for Controlled Breathing	Okada Kenko, Japan
2014	Smart Hospital Care Bed for Motor-Disabled Patients	PUCP, Peru
	IOmi: Life-Sized Humanoid Library Guide Robot	PUCP, Peru

AWARDS & PATENTS

2019	MEXT Ph.D. Studies Scholarship	Japan
	Meikeikai Award	Japan
2018	Pressure Pot for Parallel Cooking [Patent]	INDECOPI, Peru
	Non-Actuated Support Arm [Patent]	INDECOPI, Peru
2017	Interactive Robot Guide [Patent]	INDECOPI, Peru
2016	MEXT Master's Studies Scholarship	Japan
2014	Midas Touch [Patent]	INDECOPI, Peru
	IEEE Humanoid Robot Racing [1st Place]	São Carlo, Brazil

EXPERIENCE

since 2019	**Teaching Fellow** Teaching fellow for English Journal Club, a Master's level course in academic reading and writing held in English.	University of Tsukuba
2016	**Research Student** Research student at the Kansei Design Lee laboratory, focused on human-robot interaction.	University of Tsukuba
2014-2015	**Research Assistant** Research assistant at the Interdisciplinary Research Laboratory, focused on robotic research and development.	Pontificia Universidad Católica del Perú