Fernando Henrique Gomes Zucatelli

Single – 30 anos Cel: 99775-4684

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Adress 1:

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CEP: 13083-745

Adress 2:

Rua Avaré, 214, apto 13, Bairro Baeta Neves, São Bernardo do Campo – SP – Brasil

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Experiences

02/2017 - today	Estimation of a quadcopter state variables.
02/2015 — 12/2017	Human hand prothesis / robot project. Interactive simulator and program to do the math in Matab. Control of the real system with Arduino.
12/2013 — 02/2014	Internship as student help force (Studenthilfskraft) Technische Universität Dresden –Control Institut. In a Sub-actuated non-linear systems project.
10/2013 — 11/2013	Technical translator German/English to Portuguese. ADG Automatisierung Dresden GmbH
01/2008 - 12/2008	Technical of projects – Arpifrio Indústria e Comércio Ltda.
09/2005 — 11/2005	Internship of technical level – E.T.E. Lauro Gomes.
Education	
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02/2017 – (01/2021)	Doctorate degree in Mechanical Engineering - Dynamic System and Control. State University of Campinas.
02/2017 — (01/2021)	and Control. State University of Campinas. Master in Mechanical Engineering – Dynamic System and Control.
02/2017 – (01/2021) 02/2015 – 01/2017	and Control. State University of Campinas. Master in Mechanical Engineering – Dynamic System and Control. Federal University of ABC. Instrumentation, Automation and Robotics Engineering

Languages

- German (C1 level)
- English (TOEFL ITP 593).
- Spanish (B2 level)

Awards

2017	1 st Place – Graduated Academic Excellence Award – Master in Mechanical Engineering, UFABC's Pro-rectory of Graduate Studies.
2017	Acknowledgment by registering Intellectual Property of the software: CDMR Frequency 2.0, Innovation Office inovaUFABC.
2016	2 nd Place on UFABC Innovation Award 2016 – Project of compensators by the frequency method: Na interactive interface, Innovation Office inovaUFABC.
2016	Acknowledgment by registering Intellectual Property of the software: LagranTexPack, Innovation Office inovaUFABC.
2015	Engineer Institute Award – Best student of UFABCs Instrumentation, Automation and Robotics Engineering Course of 2015, Engineer Institute.
2015	CREA-SP Honor to Merit - Best student of UFABCs Instrumentation, Automation and Robotics Engineering Course of 2015, CREA-SP.

Publications

ZUCATELLI, F. H. G.; de Paula Silva, Nathalia; SUYAMA, R. . Support vector machine implementation to recognize Brazilian Real bills. FTT Journal of Engineering and Business, v. 1, p. 65-78, 2017.

ZUCATELLI, F. H. G.; MEZA, M. E. M.; FENILI, A. . LagranTexPac: A Software Tool to Obtain the Dynamic Equations of Mechanical Systems. INTERNATIONAL JOURNAL OF COMPUTER THEORY AND ENGINEERING, v. 9, p. 242-249, 2017.

ZUCATELLI, F. H. G.; MEZA, M. E. M. . Compensators design utilizing the frequency response methods and generating a summary report in Latex: Interactive Graphical User Interface. International Journal of Computer Science and Software Engineering, v. 7, p. 126-134, 2016.

BANDEIRA, Ivana S.; ZUCATELLI, Fernando Henrique G. . A Human-Computer Interface and an Analysis on the Drawing of Curves with a Face Tracker Mouse. In: Margherita Antona; Constantine Stephanidis}. (Org.). Lecture Notes in Computer Science. 1ed.: Springer International Publishing, 2016, v. 9738, p. 3-14.

ZUCATELLI, FERNANDO H.G.; MEZA, M. E. M. . Backstepping Controllers for a Cart-Pole System in Two Configurations. In: 23rd ABCM International Congress of Mechanical Engineering, 2015, Rio de Janeiro. Proceedings of 23rd ABCM International Congress of Mechanical Engineering, 2015. v. 1. p. 1-8

Patents

MEZA, M. E. M; ZUCATELLI, F. H. G. . CDMR FREQUENCY. 2015.

Patent: Computer Program. Register Number: BR512015001189-8, date of register: 19/10/2015, title: "CDMR FREQUENCY", Institute of register: INPI - Instituto Nacional da Propriedade Industrial.

ZUCATELLI, F. H. G; MEZA, M. E. M. . LagranTexPack. 2016.

Patent: Computer Program. Register Number: BR5120160013451, date of register: 14/10/2016, title: "LagranTexPack", Institute of register: INPI - Instituto Nacional da Propriedade Industrial.

Not Registered Computer Programs

BANDEIRA, Ivana S.; ZUCATELLI, F. H. G. . ev - A Human-Computer Interface to Draw Curves with a Face Tracker Mouse. 2016.

Participation in events, congress, exposition and workshops

V Workshop UFABC Mechanical Engineering 2016..Minicourse Graphical interfaces Matlab/GUIDE.. 2016. (Workshop).

IV Workshop UFABC Mechanical Engineering. Kinematic and Dynamical Modeling of a human hand robot. 2015. (Workshop).

Teaching Internship

07/2018 – 12/2018	Teaching internship on the subject ES710 Control of Mechanical Systems. Unicamp.
02/2018 — 06/2017	Teaching internship on the subject EM707 Control of Mechanical Systems. Unicamp.
07/2017 — 07/2017	Teaching internship on the subject EM707 Control of Mechanical Systems. Unicamp.
09/2016 - 12/2016	Teaching internship on the subject Control Systems 2 of UFABC

Courses and Extracurricular Activities

- Private German and; mathematics e physics for basic to higher education Teacher.
- Presentation of research partial results of the prothestic human hand on the event UFABC for all (*UFABC para Todos*).
- Exchange student of the Science without Border (*Ciências sem Fronteiras*) on the Technische Universität Dresden, Germany.
- Undergraduate research FAPESP Mathematical Modeling of neurons: Models of Hodgkin-Huxley and FitzHugh-Nagumo.
- University Monitor of the disciplines: Calculus, Linear Algebra, Electric Circuits, Quantum Physics (2x) and Linear Systems and Signal Tansforms. Federal University of ABC.
- Basic course of oratory 32 hours Delavoro Comunição Ltda.
- Automation and PLC 80 hours –Hitachi's CLP.
 Elmar Assessoria e Treinamento Ltda.
- Volunteer on UFABC for all (*UFABC PARA TODOS*) event presenting LEGO remote control cars on the Instrumentation, Automation and Robotics Engineering stand.
- Professor of Operational Course of HP 50g calculator, by IEEE-UFABC (2x).