Pietro Pustina

Updated June 30, 2021

Email 1:

Email 2:

Phone: **Citizenship**:

Education	**Sapienza, University of Rome**	Rome, Italy
	MA in Control Engineering	September 2019 – ongoing
	GPA: *30/30* (1 exam left)	
	Università degli Studi Roma Tre	Rome, Italy
	BA in Computer Engineering	September 2016 – July 2019
	Final grade : 110/110 cum laude	
	GPA: *29,836/30*	

Thesis title : *"Sviluppo di un'interfaccia C/C++ per stampanti 3D"*, Tutor : Prof. Francesco Riganti Fulginei

Honors and scholarships		
First place in the Student Honor Program for Control Engineering		ongoing
Wanted the Best Scholarship (Sapienza University of Rome)		2019
Lazio DiSCo Scholarship (Lazio DiSCo)		2019
Merit Scholarship (Università degli Studi Roma Tre)		2017

Professional experiences	**Enry's Island,**	Pescara, Italy
	Front-end web developer	Summer 2019
	Personal assistant for blind man,	Rome, Italy
		2017-Winter 2020
	Sicurezza Attiva srl,	Rome, Italy
	Alarm installer	Summer 2016 - Summer 2019

University projects

Nonlinear state observers for robots with elastic joints, course of Robotics 2

The goal of the project was to study observers for robots with elastic joints. Emphasis was given to the extension of a Luenberger-like observer from SISO to MIMO nonlinear plants. Then, the theoretical results have been validated on flexible joint robots.

Strategies for robust gait generation in humanoid robots, course of Autonomous and Mobile Robotics

The goal of the project was to study, compare and implement, adopting as dynamic model for a biped walking robot the linear inverted pendulum, different MPC schemes for robust gait generation.

Running Gait Generation for Humanoids: A Biologically Inspired Approach, course of Underactuated Robots
The goal of the project was to study a running generator for humanoids based on observations of human run and implement the algorithm on MATLAB/Simulink.

Skills

Programming
Proficient in: MATLAB/Simulink, C, Python, Java, Javascript
Familiar with: C++, Julia, PHP, HTML/CSS, OCaml, SQL, C#, YAML

Markup languages and formats
Latex, HTML/CSS, XML, JSON

Operating systems
Proficient in: Debian GNU/Linux
Familiar with: Windows

Software and Frameworks
Proficient in: LibreOffice, MQTT, Xamarin, Bootstrap, Eclipse, FreeNAS, Home Assistant
Familiar with: Wireshark

CAD modeling
Familiar with: Fusion 360

Languages
Italian (mother tongue)
English (fluent)