

# Agustín Beceyro Ferrán

Master of Engineering Mechanical Engineer

CABA, Argentina 🔤

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in Agustín Beceyro Ferrán

GitHub

#### About Me -

I am an engineer with experience in research and development, currently expanding my skill set with competencies in software development, data analysis, and agile methodologies.

I have contributed to a variety of engineering projects, including space propulsion systems, a sounding rocket, a neutron diffractometer, and a high-pressure electrolyzer. Academic background includes both research and teaching experience.

Fluent in English, demonstrated through successful collaboration with international, multidisciplinary teams. Committed to continuous professional development, complemented by postgraduate studies and specialized training.

Currently seeking new professional challenges where I can leverage my experience, contribute to organizational goals, and continue growing professionally.

### **Working Experience**

2021 – 2025 **R&D Engineer + Project Manager** 

LIA Aerospace

Coordination of the development of a space propulsion system. Other tasks involve: preliminary orbital mechanics analysis, rocket engine testing, data analysis with Python, writing and reviewing of technical reports, safety and operations planning at the rocket engine test site.

2019 – 2021 R&D Engineer

LIA Aerospace

Design, integration, and testing of various flight and ground systems, rocket engine testing, data analysis, preliminary trajectory simulation of a sounding rocket, writing and reviewing technical reports.

2015 – 2019 **R&D Engineer** 

Centro Atómico Bariloche - CNEA

Simulation of neutron diffractometer optics, development of data analysis and numerical optimization routines, selection of components, writing and reviewing technical reports.

Recipient of a scholarship for the postgraduate diploma in Nuclear

2014 – 2015 Graduate Fellow

**Centro Atómico Constituyentes - CNEA** 

Reactors and Fuel Cycle at Instituto Dan Beninson.

2012 – 2014 **R&D Engineer** 

Instituto Tecnológico de Buenos Aires

Contributed to two projects: The installation and testing of a high-pressure electrolyzer in an industrial complex, and the design, construction, and testing of a small satellite propulsion system. Engaged in academic activities as a Teaching Assistant, co-advisor for a Mechanical Engineering thesis project, and mentor for interns.

Design, construction, and testing of prototypes at the Hydrogen

2008 – 2012 **R&D Intern** 

Instituto Tecnológico de Buenos Aires

Laboratory of the Department of Mechanical Engineering.

2007 – 2008 Offset Printer Technician

Gráfica ECO

Machines setup, calibration, operation, and maintenance.

#### **Education**

2024 – Systems Analyst Degree Escuela Da Vinci

Partial average: 9.9/10.

2017 – 2019 Master in Engineering Instituto Balseiro

Focus: Neutron Optics. Average: 9.6/10.

Thesis: Conceptual design and performance estimation of the ANDES

neutron powder difractometer mode.

2014 Postgraduate Diploma Instituto Dan Beninson

Focus: Nuclear Reactors and Fuel Cycle. Average: 9.6/10.

Thesis: Analysis of different dose calculation methods in neutron

capture therapies using MCNP.

2005 – 2012 Mechanical Engineering Instituto Tecnológico de Buenos Aires

Best 2012 Mechanical Engineering Thesis Award. Average: 7.3/10.

Thesis: Design and construction of a high-pressure electrolyzer.

2002 – 2004 Bilingual High School Balmoral College

Focus: Natural Sciences. Average: 8.0/10.

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## Tech Skills -

- Python, Java, PHP, HTML, CSS, SQL
- K Git, Jupyter Notebooks, Jira, Trello
- Latex, Markdown

## Languages

- Spanish
- **English** 
  - Certificate in Advanced English
  - □ IGCSE, GCE (AS Level)
  - First Certificate in English
  - TOEIC

### **Workshops & Courses**

2020	IBM Data Science		IBM + edx
2020	Python Data Science		IBM + edx
2020	Data Science Foundations		IBM + edx
2018	Introduction to Computing in Pytl	hon	Georgia Tech + edx
2017	Introducción al lenguaje Python c a ingenierías y física	orientado	Instituto Balseiro
2016	Central European Training School Neutron Techniques	l on Bud	apest Neutron Centre
2016	McStas Workshop		PSI + CNEA
2015	Técnicas Neutrónicas en Investiga	ación	<b>Instituto Balseiro</b>
	Básica y Aplicada		
2015	Physics and Technology of Water Cooled Reactors ICTP		
	Through the Used of PC-based Si	mulators	
2013	ASME Code Section VIII Div.1		ASME on-line
2013	Technologies for Wind-Hydrogen Systems		ITBA + KIT
2012	Energía y Ambiente		ITBA
2011	Clínica de Aceros		<b>Tenaris University</b>
2008	Maquinista Impresor Offset	Fundad	ción Gutenberg + UTN

### **Publications**

2025	Estudio de factibilidad de un sistema de propulsión de gas frío para cubesat 12U
	A. Beceyro Ferrán, A. M. Caratozzolo
	XIII Congreso Argentino de Tecnología Espacial
2019	Optimización de la óptica neutrónica de ANDES en los modos de alta intensidad y resolución media
	A. Beceyro Ferrán, J.R. Santisteban, M.A. Vicente Álvarez
	Segundo Congreso Argentino de Técnicas Neutrónicas
2019	Aplicaciones del difractómetro ANDES para el LAHN
	M.A. Vicente Álvarez, A. Beceyro Ferrán, A. Moya Riffo, G. Juarez
	Segundo Congreso Argentino de Técnicas Neutrónicas
2017	ANDES neutron optics in the powder diffraction mode
	A. Beceyro Ferrán, J.R. Santisteban, M.A. Vicente Álvarez
	Primer Congreso Argentino de Técnicas Neutrónicas
2017 ANDES – a multi-purpose neutron diffractometer for LAHN	
	M.A. Vicente Álvarez, J.R. Santisteban, A. Beceyro Ferrán, S. Gomez,
	J. I. Márquez Damián, A. Coleff, A. Glucksberg, L. Montero, S. Pincin
	Primer Congreso Argentino de Técnicas Neutrónicas
2016	Preliminary design of a multi-purpose diffractometer for the RA-10
	reactor
	A. Beceyro Ferrán, J.R. Santisteban
	Central European Training School - Budapest
2015	Análisis de la óptica neutrónica de un difractómetro multipropósito para el reactor RA-10
	J.R. Santisteban, A. Beceyro Ferrán
	Reunión 42 de la Asociación Argentina de Tecnología Nuclear