Agustín Beceyro Ferrán

Master of Engineering
Mechanical Engineer

CABA, Argentina
agustinbeceyro@gmail.com
agustin-bf
AgUsBF

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.

2014 – 2015 **Graduate Fellow** — **Centro Atómico Constituyentes - CNEA**
Recipient of a scholarship for the postgraduate diploma in Nuclear 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.

2008 – 2012 **R&D Intern** — **Instituto Tecnológico de Buenos Aires**
Design, construction, and testing of prototypes at the Hydrogen Laboratory of the Department of Mechanical Engineering.

2007 – 2008 **Offset Printer Technician** — **Gráfica ECO**
Machines setup, calibration, operation, and maintenance.

Education

2024 – **Bachelor in Information Systems** — **Escuela Da Vinci**
Partial average: 9.8/10.

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
- Git, Jupyter Notebooks, Jira, Trello
- Linux, macOS, Windows
- 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 Python	**Georgia Tech + edx**
2017	Introducción al lenguaje Python orientado a ingenierías y física	**Instituto Balseiro**
2016	Central European Training School on Neutron Techniques	**Budapest Neutron Centre**
2016	McStas Workshop	**PSI + CNEA**
2015	Técnicas Neutrónicas en Investigación Básica y Aplicada	**Instituto Balseiro**
2015	Physics and Technology of Water Cooled Reactors Through the Used of PC-based Simulators	**ICTP**
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	**Tenaris University**
2008	Maquinista Impresor Offset	**Fundación 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