



Karel Hanak

Bioprocess Engineer



About me

My name is Karel Hanak and I am a biotechnologist by training with a strong background in process engineering and molecular biology.

For more information, please visit my [website](#).



Experience

2023 - present

Digital Process Engineer at VTU Engineering

- Responsible engineer for the further development of COMOS in collaboration with Siemens, as well as for internal coordination of update implementations within ongoing projects
- Close coordination with other departments to improve workflows and enhance efficiency in EPCMV projects
- Development and supervision of standards, typicals, workflows, and specifications
- Ensuring the quality of engineering documents in COMOS
- Organization and leadership of our fixed meetings, workshops, and internal training sessions
- Further development and implementation of standards and workflows in process planning, including interface definition
- Change Management and regular reporting

2021 - 2023

Process engineer at Vogelbusch Biopharma

- Concept-, Basic- and Detailengineering including COMOS-environment
- Design of pharmaceutical plant components including definition and specification of requirements, and creation as well as approval of technical documentation (i.e. PnID, GMP documentation like OQ)
- creation and approval of functional specification documentation as well as interface for automation and E&IC
- 15+ months as responsible process engineer for FAT and commissioning, including IQ / OQ and GMP-documentation of pharmaceutical plants
- Troubleshooting and plant optimization on-site for customers in running production

2018 - 2020

Technician at Austrian Institute of Technology

- Applied, contractual and basic research (FFG and E-Rare projects) incl. project management
- Method development, establishment and optimization
- Experiment design and execution under GLP and GDP guidelines incl. writing and revision of SOPs
- Luminex, NGS and qPCR assay design and establishment & student supervision



Education

2015 - 2020

Biotechnology

Postgraduate Studies at University of Life Sciences (BOKU) Vienna
Dipl.-Ing. (equivalent to MSc) passed with distinction
Master Thesis in epigenetics with focus on method development and optimization

2011 - 2015

Food- and Biotechnology

Undergraduate Studies at University of Life Sciences (BOKU) Vienna
Bachelor Thesis in antibody engineering with focus on molecular biology



Extracurricular activities

- Head of Office for Educational Policies, elected representative of the student body
- Awarded with scholarships for the European Forum Alpbach in 2019 and 2020 and active as seminar assistant in 2021
- Additional qualifications in data security, presentation techniques and applied economy

contact



Vienna



Upon request



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<https://www.karelhanak.net>



www.linkedin.com/in/karel-hanak-kh

programming

R

Python

HTML

language skills



German



Czech



English

interests

