Muny-Roth Chev

Berlin, Germany | +49 152 215 13784 | chev.munyroth@gmail.com
Linkedin: www.linkedin.com/in/munyroth-chev
GitHub: www.github.com/munycc
Portfolio website: www.munyroth.com

I am a Computational Design Specialist with expertise in algorithm development, automation, and data-driven solutions.

Work Experience

Computational architect — BCK Architektur | Berlin, DE — Sep 2023 – Present
- Developed advanced parametric tools using Grasshopper, Python and C# for simulation and automation
- Implemented machine learning concepts, including K clusters and genetic algorithms
- Created efficient algorithms for parametric component generation
- Utilized 3D printing technologies for rapid prototyping

Designer & Digital Twin Developer — Kewazo | München, DE — Aug 2022 – Aug 2023
- Led development of a robot digital twin using Unity, Python, C#, and SQLite
- Designed and implemented a data analysis tool using linear regression
- Developed 3D simulations and visualizations for enhanced robot operation

Free-lancer in Design / Computational Design — May 2021 – Aug 2022
- Delivered custom computational design solutions including digital illustrations, 3D modeling, and graphic design, tailored to client needs.
- Utilized AutoCAD, Rhino, and Adobe Creative Suite to create dynamic visual content and technical models for a range of projects.

Architect — Urbane Kultur | Strasbourg, FR — Sep 2020 – Feb 2021
- Internship focus on the production of concepts, technical drawings, details, and execution planning.

Technologies and languages

Languages and tools
Languages: Python, C# | **Version Control**: Git | **Database**: SQLite | **IDEs/Editors**: Visual studio, VS Code
Object-oriented programming | Software add-in development (Revit API, Vectorworks, Treble)

Technologies
Parametric modeling and generative design: Rhino, Grasshopper, Ironpython
CAD / BIM : AutoCAD, Revit, Vectorworks

Other:
Machine Learning & Data Science: Familiarity with key concepts through project work: Computer Vision, Natural Language Processing, Genetic Algorithms, Regression Analysis, K-clusters
Experience using: Jupyter Notebooks, pandas, NumPy, scikit-learn
In Progress: Machine Learning (Coursera, Andrew Ng's course)

Education and certifications

M.Eng. Computational design, TH-OWL, Germany.	2021 – 2023
M.Sc. Architecture & Urban planning, ENSA Strasbourg, France	Tongji University, China	2014 – 2020