

# William Hermann

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## 1 Education

Rijksuniversiteit Groningen  
Foothill College  
Henry M. Gunn High School

BSc in Artificial Intelligence (2022-2025)  
Dual Enrollment (2017-2019, 2022)  
High School Diploma (June 2022)

## 2 Work Experience

**Sole Proprietor – Silicon Valley Tech Help (SVTH)**

Jan 2022 – Aug 2022

- Provided in-home tech support, troubleshooting, and network setup
- Advised clients on best practices for device security and maintenance
- Managed client relationships and independent business operations

**Designer / 3D Modeler – Purple Mountain Innovations**

2018 – Mar 2022

- Designed and iterated on a product for casterboards with increasing manufacturability
- Consulted on patent prosecution, ensuring design feasibility and legal viability
- Developed rapid prototyping skills with molds, 3D printers, and laser cutters

**Host – Old Port Lobster Shack**

Jan 2021 – Apr 2022

- Managed front-of-house operations and customer experience
- Trained in multitasking and high-pressure service environments

## 3 Research & Projects

**Machine Learning Model for Celestial Object Classification**

2024

- Trained an SVM classifier to classify celestial objects

**Thesis – Agent-Based Language Tutoring System**

2025

- Developed a Full Stack Conversational language tutoring platform using OpenAI swarm agentic architecture with React and WebSocket integration.

**Smart Kitchen Assistant Hood**

2025

- Designed sensor fusion architecture for a smart kitchen assistant hood

**Music Segmentation Program**

2025

- Created Python program to segment speech, tempo, and silence from extended jam session recordings

## 4 Technical Skills

**Programming:** Python Machine Learning  
(NumPy, Pandas, Scikit-learn, TensorFlow)

**CAD & 3D Modeling:** SolidWorks

**Electronics & Robotics:** Hardware + UAV experience

**Cloud & Virtualization:** Docker, Linux, Networking Basics

**UI/UX & Graphic Design:** Figma, Adobe Photoshop

**Website Building / E-commerce:** Google Analytics, Woocommerce

**Rapid Prototyping:** 3D Printing, Laser Cutting,  
Molds for prototyping

## 5 Certifications & Qualifications

- SolidWorks 3D CAD Modeling
- Udemmy Course: Cybersecurity and Penetration Testing
- Python Programming & Data Science (University Coursework)

## 6 Languages

- English – Native
- Russian – A2 (Basic proficiency)