

Jan Ryser

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janryser.org

SUMMARY

Student pursuing advanced courses in computer science and math. Accomplished hard worker and team player. Looking for an internship for June-September 2025.

WORK EXPERIENCE

Software Intern, Supercomputing Systems AG

June 2024-September 2024

- Created raw video serialization library for ROS2-compatible MCAP files
- Front-end development and bug fixing for camera capture system
- Optimized data-handling algorithm to improve computational efficiency by 80%
- Development of I²C, CAN, and Video Event BUS logger
- Development within a Linux environment, with a full Atlassian workflow

Office Design Intern, Solutions Office Interiors

June 2015-August 2015

- Usage of AutoCAD to develop office layouts
- Communicated with customers to meet project requirements and be ADA compliant

Student Teacher, FLL (FIRST Lego League)

Every Fall, 2014-2018

- Taught basic introductory engineering principles to elementary-level students

PERSONAL PROJECTS

- Hiking app designed around offline mapping and trail generation
- Dungeons and Dragons homebrew creator application
- Dice Roller focused on odds calculation and rolling mixtures of dice
- Robot design, building, and programming, 4 years, through FIRST Robotics Competition (FRC)

SKILLS

- Languages: C/C++/C#, Java, SQL
- UI development: QT, XAML
- Deployment: CMake, Conan Package Manager, bash/shell/batch scripts
- Robot Operating System 2 (ROS2): ROS2 messages and message serialization
- Multimedia: Adobe Flash/Illustrator/Premiere/Photoshop, GIMP
- Computer Aided Design (CAD): Creo Parametric, Autodesk Inventor, Solidworks, AutoCad
- Workflow: Jira, Bitbucket, Confluence, Git
- Environments: Linux, Windows
- Multilingual: Swiss-German, conversationally fluent in German

EDUCATION

Oregon Institute of Technology, Klamath Falls, Oregon

Bachelor of Science, Applied Mathematics

Bachelor of Science, Software Engineering Technology

Expected December 2025

Expected June 2026