

Evelyn Ferwalt

Evelyn Elizabeth Ferwalt

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Education

University of Rochester / Electrical & Computer Engineering

Class of 2022, Rochester NY

B.S. Electrical and Computer Engineering Candidate

- Dean's List cumulative GPA of **3.88**.
- Admitted to **Graduate Engineering At Rochester (GEAR)**—expected M.S. in Optics 2023, University of Rochester.
- Relevant coursework may include *Logic Design; Circuits and Signals; Semiconductor Circuits & Devices; Introduction to C/C++ Programming; and Computer Organization*.

Technical Projects

7-Segment Hexadecimal Decoder FSM / PCB Design using Eagle and AutoCAD

Logic design oriented board was fabricated by OSH Park using After Dark service

- Powerup was successful first-try, all input combinations properly accounted for
- For complete overview see <https://tinyurl.com/Ferwalt7SegPresentation>

.bmp Image Transformation Program / ~700 Line C++ Programming Project

Processes image files, filtering all but one color out of a picture; includes user input & options

- Utilises libraries provided by Microsoft to decode .bmp file header data

Raspberry Pi Light Switch / Python Scripting & Stepper Motor Interface

Custom mounted manual light-switch-flipper, built completely at home

- Hobbyist hardware manually configured, including stepper motor & touchscreen
- Program thoroughly debugged to account for step-size and velocity

Arduino Atmospheric Balloon Project / Belgian ASGARD Program Participant

Multiple RC clock periods read to determine R & C changes as balloon rose

- Heavy data analysis in Excel required to confirm hypotheses
- Ceramic & tantalum circuit components operate consistently, even in near-space

Experience

UR River Campus Music Department / Music Ensemble Setup

August 2019 - Present; Seasonal

- Set up and take down audio equipment for the university's performance groups.
- Work in a team to efficiently complete mandated tasks under time pressure.

University of Rochester Beatbox Collective / President

August 2019 - August 2020

- Manage executive-board & develop tenets to implement long-term group vision.
- Ensure excellence in publicity, performances, weekly meetings and more.

Self Employment / Private Math & Science Tutor

2017 - Present

- Teach students study skills, note-taking skills, and test-taking strategies.
- Develop custom lesson plans and teaching materials.

Skills

Digital Logic / Design & optimization using foundational Boolean logic gates

Productivity Software / Word, Powerpoint, Excel & Google counterparts

Digital Media / Visual Production w/ Premiere Pro and Adobe CC

Vocal Performance / Acappella Webmaster, Video Director & Audio Engineer

- Awarded **Outstanding Vocal Percussion** at *Rome Free Academy's* 2019 and 2020 Acappella Invitational, Rome NY.