

MATTHEW HEALY

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GITHUB <https://github.com/healym>
WEBSITE <https://microcloud.space>

OBJECTIVE

To obtain a software engineering internship focused on challenging and compelling problems in computer science

EDUCATION

MAY 2019 | Missouri University of Science and Technology, Rolla MO
Bachelor of Science, Computer Science
GPA : **3.4/4.0**, Major GPA : **3.9/4.0**
Relevant Coursework: Theory of Computer Science, Algorithms, Data Structures, Intro Microcontroller Embedded Design

WORK EXPERIENCE

MAR 2017 | **Student Worker/Technician**
PRESENT | *ITRSS/Minerfly*, Rolla MO
◦ Maintained and built several frames for research flights
◦ Designed real-time computer vision safety system
◦ Managed and co-developed autonomous flight software for several UAVs
◦ Conducted safety procedures for 50+ flights

JUN 2015 | **Recreational Attendant**
AUG 2016 | *Lake Williamson Christian Center*, Carlinville IL
◦ Supervised 300-500 children in a water recreation area
◦ Ensured safety on 25ft. climbing wall

PROFESSIONAL AFFILIATIONS

DR. GAYLA OLBRICHT | **Research Assistant**
◦ Analyzed neuroimaging data to look for statistical trends
◦ Co-authored a paper describing the project
◦ Presented research to a board of peers

ROBOTICS TEAM | **Electrical Team**, Sub-team Lead
◦ Designed boards for system controls and power management
◦ Collaborated to design more efficient waterproofing for electrical systems
◦ Contributed to design of optical distance measurement software for submersible robot
◦ Assisted in designing power distribution circuitry for submersible robot

MARS ROVER TEAM | **Telemetry/Controls**,
◦ Worked with both Science and Telemetry teams to design data collection devices
◦ Designed software to visualize scientific data

TECHNICAL SKILLS

LANGUAGES | Haskell, Python, Go, Assembly, C, C++, Javascript, Elm, BASH, L^AT_EX, Julia, Matlab

SOFTWARE | Git/Github, GNU/Linux, LLVM Debugger, Make, OpenCV, PostgreSQL, Valgrind, Vim, ZSH