

REBEKAH JULICHER



REBEKAH@JULICHER.NET



520-450-1618

SKILLS

LANGUAGES:

- **C** - 4 yrs.
- **Python** - 2 yrs.
- **Java** - 3 yrs.
- **Ruby** - 4 mos.
- **C#** - 2 yrs.
- **C++** - 1 yr.
- **SML** - 4 mos.
- **Javascript** - 4 mos.
- **HTML / CSS** - 3 yrs.
- **MIPS Assembly** - 4 mos.
- **Unix** - 4 mos.

OPERATING SYSTEMS

- **Windows** - 10 yrs.
- **MacOS** - 7 yrs.
- **Linux (Ubuntu, Debian, Mint)** - 3 yrs.
- **FreeRTOS** - 6 mos.

TOOLS:

- **Adobe Photoshop** - 1 yr.
- **Adobe Bridge** - 1 yr.
- **Adobe Illustrator** - 1 yr.
- **Adobe Audition** - 4 mos.
- **Microsoft Office** - 4 yrs.
- **GitHub / Git** - 2 yrs.

RELEVANT EXPERIENCE

RAIN BIRD – ASSOCIATE ENGINEER

May 2022 – August 2023

Created and maintained internal-use virtual irrigation controller application using existing physical controller firmware for the purpose of marketing, localization, and training. Designed application to be easily extendible to future uses as a web-based virtual controller interfacing with physical controllers for real-world irrigation system control.

Assisted in maintenance and updating of firmware for commercial irrigation controllers, maintained current documentation of processes ranging from new firmware flashing/encryption procedure to code functionality.

Assisted with creation of, policy creation for, and extension of company-wide internship program as first official intern, as well as assisting with future intern/employee recruitment efforts on-campus at career fairs.

UNIVERSITY OF ARIZONA – UNDERGRADUATE TEACHING ASSISTANT

January 2022 – December 2022

Assisted in teaching concepts related to Object Oriented Programming – MVC architecture, Agile development, UML diagramming, and implementing various types of interfaces in Java. Assisted in creating assignment specs, grading, and decision-making regarding course specifics and activities, as well as resolving problems with student devices and IDE issues.

TUCSON ELECTRIC POWER - BUSINESS APPLICATIONS INTERN

January 2021 – January 2022

Maintained and updated applications and records within ServiceNow in an Agile environment, created and assigned team member stories for sprints, maintained tracking spreadsheets for application plugin versions, and handled a multi-team application recovery statement version tracking/update project.

AMAZON - AWS IOT EDUKIT GRAPHICS ARTIST

November 2020

Created graphics for the Smart Thermostat configuration in the Amazon AWS IoT EduKit.

[\(https://edukit.workshop.aws/\)](https://edukit.workshop.aws/)

VEX ROBOTICS

August 2012 – May 2017

Programmed autonomous code and robot-driver interfaces using C in a fast-paced, competitive setting. Wrote and organized documentation of the building and programming process.

VECTOR GRAPHICS ARTIST/CLASS 4 CNC LASER OPERATOR

September 2017 - August 2023

Self-employed/Hobbyist. Designed and manufactured custom laser engraved/cut items both individually and in bulk. Created, organized, and managed delivery and payment for order invoices.

- **Gimp** - 1 yr.
TOOLS (cont.):
- **Trello** - 4 yrs.
- **CorelDRAW** - 2 yrs.
- **OpenSCAD** - 4 mos.
- **SketchUp** - 4 mos.
- **Procreate** - 2 yrs.
- **Cura Ultimaker** - 4 mos.
- **ServiceNow** - 1 yr.
- **Unity** - 1 yr.
- **Perforce** - 8 mos.
- **Visual Studio** - 1 yr.
- **Visual Studio Code** - 2 yrs.
- **Eclipse** - 3 yrs.

GENERAL SKILLS:

- **Vector graphics** -
3 yrs.
- **Laser manufacturing** -
3 yrs.
- **Rapid prototyping** -
3 yrs.
- **Agile development** -
2 yrs.

ACADEMIC AWARDS:

- **Department of Computer Science - Outstanding Senior**
University of Arizona, Fall 2022
- **Department of Religious Studies & Classics - Special Achievement in Elementary Latin**
University of Arizona, Spring 2020

EDUCATION

ASSOCIATE OF SCIENCE

Central Arizona College
Dual-enrollment student, finished both a high school diploma and an Associate of Science degree simultaneously in May of 2019 with a GPA of 3.93.

BACHELOR OF COMPUTER SCIENCE

MINOR IN INFORMATION SCIENCE, TECHNOLOGY, AND ART (ISTA)
University of Arizona
Graduated December of 2022 with a GPA of 3.868

MASTER OF HUMAN-COMPUTER INTERACTION

Carnegie-Mellon University
In-progress.

SOME RECENT PROJECTS

MORE DETAILS AND PHOTOS/VIDEOS AVAILABLE ON REQUEST

ULTRASONIC RADAR OCTOPUS

Arduino Uno
Designed, assembled, and coded an LED edge-lit, themed ultrasonic distance sensor device that scans a 180-degree area around itself and outputs to a Processing application window a graphical "radar" representation of the distances between itself and any items in that area. Also includes servo-controlled eyebrows that lower when any distance read is greater than a specified amount. From professor feedback: "...probably the most impressively completed A2 in the history of ISTA 303."

ROBOTIC ARM DICE-ROLLER

Arduino Uno
Designed, assembled, and coded a robotic arm/tower assembly to accept dice from a user, shake them, and release them into a dice staging area autonomously. Arm also accepts manual control via constructed joystick controller.

EXTRACURRICULAR GROUPS

Choir Violinist: 2015 – Present
Volunteer Children's Choir Assistant Instructor: 2022 – December 2023
American Heritage Girls: Apr. 2013 – May 2019
Phi Theta Kappa Honors: Apr. 2018 – Present
LIFT - Maricopa City Library Volunteering: Jul. 2018 – Oct. 2018

