# Timothy Renney

830 Arcadian Dr, Suite 94, Grand Ledge, MI, 48837
timrenney@gmail.com
(517) 819-8979
**LinkedIn:** https://www.linkedin.com/in/timothy-renney-644146192/
**Portfolio:** https://renneytj.github.io/

## Education

**University of Michigan** (April 2022)                                                                            **Ann Arbor, MI**

Bachelor of Computer Science Engineering
Minor in Music and Math
Relevant coursework: Software Engineering
                                    Intro to Game Development
                                    Intro to Machine Learning

GPA: 3.678

## Experience

**TEKSystems**

*Developer*                                                                         May 2022 – Present - **Lansing, MI**

- Worked as a consultant software developer for Auto-Owner's TPP web team (contract to hire).
- Went through Pega and Java training and completed various front-end Pega projects.

**EMBiR Lab (Evolution and Motion of Biology and Robotics)**

*Research Assistant*                                                       October 2018 – April 2022 - **Ann Arbor, MI**

- Wrote Python scripts that trains a neural network to generate snake masks for pattern analysis.
- Researched existing software to quantitatively compare snake patterns between choral snakes and mimics to increase knowledge of convergent evolution.
- Co-authored a methods research paper for batch masking. (doi: https://doi.org/10.1101/2021.11.12.468394)

**UM::Autonomy**

*AI Project Lead*                                                    September 2019 – April 2022 - **Ann Arbor, MI**

- Co-lead project involving the use of neural networks for improved computer vision.
- Lead project involving combining the ZED Camera and Lidar data to create a universal dataset.
- Created and implemented algorithm to find center and front normal vector of dock from LiDAR data.

## Technical Skills

**Programming Languages:** Java, C, C++, C#, Python, JavaScript, HTML, OCaml, MATLAB, R
**Software:** Pega, Git, Bitbucket, Linux, gcc, Unity Game Engine, Anaconda, ROS, Blender, Microsoft Excel

## Volunteer

**Beta-Epsilon chapter of Eta Kappa Nu (HKN)**

*Member*                                                             January 2020 – April 2022 - **Ann Arbor, MI**

- Volunteered for a Science Olympiad and technology support at a retirement home.

## Awards

Eagle Scout Rank and Three Eagle Palms                                                            September 2017
Winner of Fall EECS 183 Showcase Stryker Award                                                    December 2018