

# TREVOR WHITE

Detroit, Michigan

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## Experience

### Ford Motor Company

May 2019 – Present

*Software Engineer, Autonomous Vehicles*

*Detroit, Michigan*

- Lead software engineer responsible for architecting and coding high-fidelity future autonomous vehicle prototypes.
- Progressed from contract (via ESG Automotive) to direct in just 10 months, quickly earning Level 6, Level 7, and Level 7 HTHD promotions for exceptional performance.
- Achieved a 60% reduction in costs and development time through modular architecture, optimization, and software.
- Recognized with 3 Henry Ford Awards, Henry Ford Technology of the Year Runner-Up, and pending patent for AV innovations.

### Viral Social, LLC

October 2015 – December 2022

*Founder*

*Detroit, Michigan*

- Founded a social media automation and growth software startup, serving customers from Fortune 500 companies to Grammy award winning artists.
- Led a team of 7 contractors and 100+ social media accounts, amassing over 20 million followers.
- Grew annual revenue from zero to six figures without external funding.
- Achieved a 95%+ profit margin with a 75% reduction in operational costs via software automation.

## Education

### Wayne State University

January 2015 – December 2018

*Bachelor of Science in Computer Science*

*Detroit, Michigan*

## Projects

### 🔗 Ford Autonomous Delivery Vehicle | Python, Linux, OpenCV, Neopixel, Socket, Docker December 2021

- Lead software engineer for the Computer Vision Pedestrian Detection System.
- Features a cross-vehicle lightbar that offers pedestrians clear visual movement tracking feedback to cross the road safely.
- Autonomously delivered over 10,000 pounds of food to underprivileged senior citizens in Detroit.

### 🔗 Ford Self-Driving Vehicle | Python, Raspberry Pi, PyGame, Protobuf, TCP/IP, Docker June 2019

- Lead software engineer for the Autonomous Audio Communication System.
- Enables independent communication with passengers and pedestrians with interior and exterior vehicle-triggered audio.
- Deployed in 300+ autonomous prototype vehicles showcasing its robust architecture, scalability, and error handling.

### 🔗 Stay Awake App | Python, PyQt5, PyAutoGUI, Pyinstaller, Poetry June 2020

- Developed an open-source, cross-platform application that prevents your computer from going to sleep.
- Features a modern, single-button user interface with native system notifications and tray minimization.
- Offers easy installation via binary release, Poetry, and requirements.txt.
- Highly popular with 20,000+ clones, 1,000+ downloads, and 70+ stars.

### 🔗 Coin Sense App | Python, Selenium, Pandas, Tabulate, Threading, Docker, Poetry April 2021

- Created a real-time CLI cryptocurrency portfolio value tracking application.
- Supports an unlimited amount of coins, including all BNB and ETH network coins, via a simple settings file.
- Ships with effortless setup via Docker, Poetry, and requirements.txt.
- Widely utilized with 25,000+ clones and 60+ stars.

## Additional Experience and Awards

**Head Coach for High School Tennis Team** (2016 - 2019)

**3x Henry Ford Award Winner** (2019, 2021, 2022)

**Henry Ford Technology of the Year Award Runner-Up** (2019)

**Pending Patent for Autonomous V2V Communication (US84517399)** (2023)

## Skills

**Languages:** Python, C++, C, C#, Javascript, HTML/CSS, SQL, Shell, Bash

**Developer Tools:** VS Code, Pycharm, Visual Studio, Arduino IDE

**Technologies:** Linux, Docker, GitHub, Jira, Trello, CI/CD, Arduino, Raspberry Pi

**Libraries/Frameworks:** OpenCV, PyQt, Requests, Selenium, Pandas, Numpy, Asyncio, Threading, Protobuf, JSON,

Socket, FastAPI, Scrapy, Flask, Pillow, PyGame, Kivy, Regex, Os, Poetry, Black, Flake8, Radon, Bandit, Isort, MyPy, .NET