

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.

Notable Projects

🔗 **Ford Autonomous Delivery Vehicle** | Python, Linux, OpenCV, Neopixel, Socket, Docker

- Lead software engineer for the Computer Vision Pedestrian Detection System.
- Features a cross-vehicle lightbar that offers pedestrians clear visual movement tracking 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

- 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.

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

Personal Projects

🔗 **Stay Awake App** | Python, PyQt5, PyAutoGUI, Pyinstaller, Poetry

- 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

- 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 distributed 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