***Pravin Kumar Murugesan***

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**OBJECTIVE**

Freshmen-year engineering student at the University of Michigan-Dearborn, Majoring in Robotics Engineering. Have an avid interest in the Artificial Intelligence, and Mainly in the vehicles side of the Automation Industry.

**SKILLS**

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| * **Designing skills:** * **Programing skills:** * **Communication skills:** | Auto cad & Hand drawing.  Python  C++ & JavaScript  Written and oral in English and Tamil.  Written and oral in Hindi and Japanese. | **Proficiency**: Advanced  **Practical experience**: Advanced  **Practical experience**: Novice  **Competency**: Advanced  **Competency**: Novice |

**EDUCATION**

**University of Michigan – Dearborn |** Freshmen Year student currently | 1.2023 – till now

* Robotics Engineering Major
* Currently a member in the Intelligence Systems Club Member

**Bhaktavatsalam Vidhyashram** | Junior & Senior Year (Grade 11 & 12) Chennai, TN, INDIA | 11.2020 – 06.2022

* C.B.S.E: 375/500

**Troy High school** | Sophomore (Grade 10) Troy, MI, USA | 11.2019 – 11.2020

* GPA: 3.50/4.00
* Head of Advertising and Designing teams of an unofficial club (Engineering Club)

**Bhaktavatsalam Vidhyashram** | Until Sophomore Chennai, TN, INDIA | 06.2008 – 06.2019

* Grade: B+

**Additional course work**: Python, C++, JavaScript, and Auto desk designing in group and individually.

**PROJECT EXPIRENENCES**

**Cleaning Robot (Oakland County Science and Inventions)** | 10th grade Troy, MI, USA | 04.2020 – 05.2020

* Developed T-shirts for the team for advertising and prepared a presentation about the project which was a team of 5-people.
* Designed the layout and gave the base idea for the project.
* This project was done by the 5-people team in a span of one month.
* This project completely cleans till the edge of the table and detects using ultrasonic sensor and changes direction to completely clean the table.
* This project was coded in the C++ Programming Language
* Won the Best Invention and was awarded 1000 $ Price money.

**Line and edge detecting or Bluetooth controlled Toy Car (Solo Educational Project)** Home| 01.2023 – till now

* <https://a.co/d/2dvf1t7> This is the kit.
* In this project I am mostly trying to code on my own to get a hands-on experience on coding since in this as well the coding is in the C++ Programming language.
* This project as well has ultrasonic sensor for the edge detecting so I can experiment with this kit.

**Tiny Kart (Intelligence Systems Club)** | Freshmen Dearborn, MI, USA | 01.2023 – till now

* Making a Tiny Kart for a inter-club competition.
* Manager in a one of the three Tiny Kart Teams also wiring personal.
* In this project we are making a RC Car to autonomous fully detecting and avoiding obstacles in the track.
* We currently succeeded in making it run and turn autonomously and in the next phase of adding sensors for helping in the object avoidance (currently using LiDAR and ultrasonic sensors).
* Right now, the Kart is track ready for a fully autonomous timed race.