TANVIR SINGH

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EDUCATION

University of Michigan, Ann Arbor, MI

anticipated April 2018

- ❖ B.S.E. in Computer Science
- ❖ GPA: 4.0

Novi High School, Novi, MI

(2014)

- GPA: 4.0, Top 6%, SAT Score: 2350, ACT Score: 35, PSAT Score: 233
- ❖ 200+ hours of volunteer work at Hidden Falls Gurdwara, school projects, etc.

EXPERIENCE

Courses at University of Michigan, Ann Arbor, MI

(2014 - Present)

- Created a console-based Monopoly simulator using object-oriented principles
- Developed a simplified search algorithm that used cosine similarity and the tf-idf measure to find documents for a query
- Created a MATLAB function that given the matrix form of an image used various techniques to localize the image based on known data

Michigan Aeronautical Science Association

(2014 - Present)

Designing and building an integrated flight computer system using the C language, an Arduino board and sensors to fit into a hybrid rocket for a competition

IB Computer Science HL

(2012-2014)

- Created a program(with GUI) in Java based on a self-thought concept to help teacher save hours of homework grading
- ❖ Learned Java for two years and the basics of computer hardware design

Hemkunt International Speech Competition

(2012)

- ❖ Helped coordinate the organization and execution of a 4 day event
- Created and compiled a 30 page programme using Microsoft Publisher

SKILLS

Foreign Language

- Fluently speak Punjabi, Hindi and Urdu
- Proficient in French

Programming

❖ C++, Java, MATLAB, Verilog, Git/Github

HONORS & AWARDS

| National Merit Finalist | (2014) |
|--|----------------|
| 1st Place Hemkunt International Speech Competition | (2014) |
| National AP Scholar | (2013) |

LEADERSHIP POSITIONS

| Science Olympiad | Vice-President (2013-2014) |
|------------------|---|
| French Club | Publicity Officer (2012) & Vice President (2013-2014) |
| Science Club | Secretary (2013-2014) |