Academic Skills and Team-based Learning (4CIO18)

Report Writing

Academic Task

Student Id : 2330790

Student Name : Abhishek K.C.

Group : L4CG16

Lecturer : Mr. Manish Deuja

Submitted on : February 11, 2023

Abstract

The report encompasses a range of tasks completed during the semester, including blogging, creating video statements, academic reports, professionalism assignments, the Week 7 report, professional organization reports, and group presentation slides. It showcases a diverse range of topics and my proficiency in each. The professionalism section of the report features a screenshot of my graduation form, a curriculum vitae, and a cover letter.

It also provides insight into the requirements and benefits/disadvantages of joining a professional group. Lastly, my presentation skills and reliability are demonstrated in the final segment of the group presentation slides.

Index To the contents

1.Link to the Blog

1.1Week-1

https://abhishek374.wordpress.com/2022/11/25/my-new-journey/

1.2Week-2

https://abhishek374.wordpress.com/2022/12/01/week-2/

1.3Week-3

https://abhishek374.wordpress.com/2022/12/12/week-blog/

1.4Week-4

https://abhishek374.wordpress.com/2023/02/10/week-blog-2/

1.5Week-5

https://abhishek374.wordpress.com/2022/12/26/weekly-blog/

1.6Week-6

https://abhishek374.wordpress.com/week-6/

1.7Week-7

https://abhishek374.wordpress.com/2023/01/10/week-7-blog/

1.8Week-8

https://abhishek374.wordpress.com/2023/01/14/blog/

1.9Week-9

https://abhishek374.wordpress.com/2023/02/10/about-mobile-first/

1.10Week-10

https://abhishek374.wordpress.com/2023/01/30/artificial-intelligence/

1.11Week-11

https://abhishek374.wordpress.com/2023/02/02/week-11/

1.12Week-12

https://abhishek374.wordpress.com/2023/02/08/week-12/

2. url for the video declaration

https://drive.google.com/file/d/1z6wTwMUB9GlbALZipVkryjfuLiPyD0vY/view

3. Efforts to Be Professional

3.1. CV

Curriculum vitae

Abhishek

Name: Abhishek K.C.
D.O.B: 03 June 2002
Address: Dhapasi, Tokha-4
Phone: +9779823189012
Email: kcabhisekh@gmail.com

- **Personal Profiles:**

  Career Objective
  I am an energetic, ambitions person who has developed a mature and responsible approach to any task that I undertake, or situation that I am presented with.

- **Education:**

  Wolverhampton University, Herald College Kathmandu
  BSc (Hons) Computer Science
  - **Module**
    a) Fundamental of Computing
    b) Web Technologies
    c) Academic Skills and Team Based Learning
    d) Introductory Programming and Problem-Solving

  The Chandbagh School +2 Wing
  Grade: A

Curriculum vitae

- **Achievements:**

  Bhanubhakta Memorial School
  Singing Competition *1ˢᵗ position*
  Drama Competition *1ˢᵗ position*

  Deepshikha High School
  Football Competition *1ˢᵗ position*
  Volleyball Competition *1ˢᵗ position*
  Badminton Competition *1ˢᵗ position*

  The Chandbagh School +2 Wing
  Badminton Competition *1ˢᵗ position*

  Bible College
  Nati Singing Competition *Top 10*

- **Technical and skills**

  Technical
  Music production - *logic pro x*
  Video editing - *VN*
  Programming language
  - Html & CSS
  - Java

  Skill
  Playing Guitar
  Singing
  Playing football, Basketball

Curriculum vitae

- **Experience:**

  Form lives music at: *Dancing Yak Bamboo Restaurant*

- **References:**

  Bhanubhakta Memorial School: info@bhanu.edu.np
  Deepshikha High School: deepshikahighschool.edu.np@gmail.com
  The Chandbagh School +2 Wing: principle@chandbagh.edu.np
  Linkedin: www.linkedin.com/in/abhishek-k-c-718826193

2

Abhishek K.C.

✉ kcabhisekh@gmail.com   📞+977-9823189012   📍Tokha - 4, Kathmandu

December 30, 2022

Ishwor Luitel
SoftNEP Private Limited
Bhimsen Gola Marg, Min Bhawan Kathmandu info@softnep.com

Dear Hiring Manager,

I am a highly motivated and enthusiastic individual who possesses a mature and dependable demeanor in all the tasks and challenges I encounter. I would be honored to work in the Web Design department at SoftNEP Pvt Ltd. My proficiency in HTML, CSS, and JavaScript will be a valuable asset to the company.

I am from Herald College Kathmandu which is in Naxal Kathmandu. It is the one of the best IT Colleges in Nepal. Having my Skills, and Knowledge, I can benefit the company in design and other various ways. I am Interested in this company due to the company potential and I have researched about company which it matches me and company itself.

I will be waiting for a personal interview call. You have my full commitment and cooperation for a smooth transition of responsibilities.

Sincerely,
Abhishek K.C.

Form for Graduate Recruitment

PRACTICE APPLICATION FORM

Please note that Appendix A must be completed by your university tutor

CONFIDENTIAL

POSITION APPLIED FOR:	RESEARCH AND DEVELOPMENT – Computer Science Graduate

A) PERSONAL DETAILS (BLOCK CAPITALS PLEASE)

Surname:	K.C.	First Name:	Abhishek
Title:	Mr	Preferred Name:	Avi

University Address: Wulfruna Street, Wolverhampton Mobile Number: 01902 321000 E-mail address: enquiries@wlv.ac.uk.	Home Address: Tokha – 4, Kathmandu Phone Number: +977 9823189012 E-mail address:
Nationality: Nepalese	If you are not a British passport holder or a European Citizen, or you do not have the permanent right to remain in the UK, you will require a work permit.
Do you need a work permit to be employed in the UK? ☒ Yes ☒ No	If you already have a work permit, when does it expire? _____ (Please note that your current work permit may not be valid for this post.)

B) DEGREE COURSE DETAILS

University: University of Wolverhampton

Course: BSc (hons) Computer Science

	Name: Mrs. Tara Devi Subedi E-mail address: tara.subedi@heraldcollege.edu.np Phone Number: +977 9801022637
Main Subjects Studied:	Results to Date:
Year 1 Academic Skills and Team-based Learning Fundamentals of Computing Introductory Programming and Problem Solving Web Technologies **Year 2** Distributed and Cloud System Programming Numerical Methods and Concurrency Object-Oriented Design and Programming Concepts and Technologies of AI Human – Computer Interaction **Year 3**	Ongoing

High Performance Computing Project and Professionalism Artificial Intelligence and Machine Learning Complex Systems	

C) ACADEMIC QUALIFCATIONS					
Secondary School/College	Dates		Examinations taken	Date	Result
	From	To			
SEE	-	2076	NEB		3.35
+2	-	2079	NEB		3.07

Other relevant Education or Training Courses, with dates
IELTS Course = Social hub Kathmandu

D) WORK EXPERIENCE (Most recent first)			
Dates		Employer Name	Position Held & Responsibilities
From	To		
-	-	-	-

E) COMPUTING EXPERIENCE
Please expand on your experience and knowledge of programming / use of software packages, including relevant examples

Experience and Knowledge of programming / use of software packages are:
1. HTML (Skeleton of the website)
2. CSS (Style the HTML Blueprints)
3. Java (Used to make variety of desktop and web applications)
4. Python (Same as Java)

F) PLANNING, ORGANISING AND DELIVERY
Give an example of where you were responsible for planning a project or event. Please consider:
- A brief description of the project or event.
- Provide details of your planning process.
- How did you ensure that attention to detail was maintained?
- If you were to undertake the same project or event again, how would you plan it differently and why?

Mokshya Event

1. The event is about community football tournament. The event is organized by Mokshya social club.

2. In this event we are gathering the idea to organise a good event.

G) COMMUNICATION
Describe a situation when you had to communicate an important message to someone. Please consider:
- What method you choose to communicate your message?
- Why did you choose to take that approach?
- How did you satisfy yourself they understood the message?
- How did you respond to any questions or feedback about the message you communicated?
- What was it about your communication that you think was most effective?

About presentation

1. I choose email and google spaces to communicate with my group members.
2. I choose a professional and an easier accessibility.
3. I satisfied myself that they understood the message, as they replied in a relevant way.
4. I provided the guides and references for them to get access to extra knowledge and information.
5. First, language is the most important factor during a communication. So, I thought it was the way that I explained the message in a good language where grammars were used correctly which made me think the message was effective.

K) REFERENCES

Referee 1		Referee 2	
Title:	Mr.	Title:	Miss
Full Name:	Ishwor Luitel	Full Name:	Jenny rajak
Job Title:	Tutor	Job Title:	Tutor
Organisation	Herald College Kathmandu	Organisation:	Herald College
Address: Bhaktapur		Address: Lalitpur	
Tel No: -		Tel No: -	
E-Mail address: ishwor.luitel@heraldcollege.edu.np		E-Mail address: jenny.rajak@heraldcollege.edu.np	
Please state if we may obtain this reference prior to interview	☒ Yes ☐ No	Please state if we may obtain this reference prior to interview	☐ Yes ☐ No

DECLARATION

I declare that the information given in this application form is true and complete. I understand that if I have given any misleading information on this form or made omissions, this will be sufficient grounds for terminating my industrial placement.			
Name:	Abhishek K.C.		
Signature:		Date:	17/01/2023
The information provided by you on this form may be processed for purposes permitted by the General Data Protection Regulation. You have, on written request, the right to access personal data held about you.			

APPENDIX A

TO BE COMPLETED BY AN APPROPRIATE UNIVERSITY TUTOR, SUPERVISOR OR OFFICIAL

Student Name:	
University:	
Course Title:	

Stage reached and progress made in course

Please give your view on the applicant's suitability for the placement they are applying for

Any other information relevant to this application

Your Name:	
Position:	
Signature:	**Date:** Click here to enter a date.

4. Week 7 Report

4.1. Abstract

In this report I had describes the History and Data of University of Wolverhampton, Herald College Kathmandu and SOFTNEP pvt ltd. It has information about the company University and about difference about Graduates from both foreign and Nepali universities are eligible to apply for the open position at the organization. To best serve the interests of the business, it is recommended to research the company, SOFTNEP, its goals, and requirements for the position. A good understanding of the Nepalese context is also advisable.

4.2. Introduction

4.2.1. Wolverhampton University

The University of Wolverhampton, located at Wulfruna St. in Wolverhampton, UK, has a rich history dating back to the 19th-century mechanical institutes in the city. These institutes provided vocational and other forms of training for working men and women who couldn't afford it. In 1933, the Wolverhampton Technical and Staffordshire Technical College was established to give students from disadvantaged backgrounds access to higher education. The college was transformed into a polytechnic in 1969 and eventually became a full university in 1992.

4.2.2. Herald College

Herald College in Naxal, Kathmandu offers the most affordable university education in the UK. Established in 2000, the college has a close partnership with the University of Wolverhampton in the UK and offers Bachelor's degrees in IT and business. Specifically, they offer BSc (Hons) in Computer Science and International Business Management from the University of Wolverhampton.

4.2.3. Company Introduction

SoftNEP, an independent software development company, boasts extensive experience in creating digital products and their supporting systems. Based in Min Bhawan, Bhimsen Gola Marg, Kathmandu, Nepal, the company was established in 2004. With a talented team of designers, programmers, project managers, and web marketers, SoftNEP excels in a wide range of skills from internet marketing to software development, providing a comprehensive view to stay ahead in the game.

4.3. Body

4.3.1. About University, College, and Company

WLV

The University of Wolverhampton, a prestigious institution of higher learning with a 200-year history of academic excellence and opportunities, has four campuses located in the West Midlands of England, covering Shropshire and Staffordshire.

The University of Wolverhampton is comprised of 18 schools, organized into four main faculties: Social Sciences, Education, Health and Wellbeing, and Arts. There are roughly 300 undergraduate programs and 200 graduate programs to choose from. According to the World University Rankings 2023 by THE, the University of Wolverhampton ranks 601-800. The academic year is structured into two semesters, with 12 weeks of instructional time in each. The calendar includes a combination of teaching, review, and assessment periods. The university covers a broad range of educational levels and specialties, from primary school to higher education. Such as evaluations, health instruction, and education with numerous objectives, they provide complete text and indexing for nearly 500 books and monographs and full text for over 1,200 publications and more than 2,100 journals. (QS, 1994)

There are many courses to study, but according to the computer Science (BSc (Hons) Computer Science) Module they are:

Modules of University of Wolverhapton

Module -1
Fundamental of Computing
Internet Software Architecture
Introduction to Games Technology
Introduction to object - oriented programming
Introductory programming & problem solving

Module - 2
Distributed & colud sytem programming
Numerial methods and concurrency
Object oriented & programming
Concepts and Technologies of AL
Database
Games Develpoment
Human- Computer interaction
Robotic Engineering

Module -3
High performance computing
project and professionalism
Advanced Web Development
Advanced Games Technologies and programming
Artifical intelligence and machine learing
Emerging interative technologies
secure mobile application development

In This figure there are 3 years modules of Wolverhampton University. The module is divided into 3 parts. Each module has different course.

HCK

Herald College Kathmandu (HCK) offers the most cost-effective higher education in the UK. In partnership with the University of Wolverhampton in the UK, it provides Bachelor's degrees in IT and business. Its curriculum is designed to provide a comprehensive knowledge base, with a focus on business and information technology.

Herald College Kathmandu delivers BSc (Hons) in computer science and international business management from the University of Wolverhampton. With its top-notch academic and social facilities, the college aims to provide students with the best education experience. The faculty uses their expertise to apply textbook theories to real-world scenarios. Students receive training in cuttingedge computer

languages, tools, techniques, and methodologies to improve their programming, architecture, artificial intelligence, and cloud computing skills. The college offers a range of modules, some of which have been updated, as depicted in figure 1 there are many modules, but some are changed in all semsters.

Every year, the Herald College in Kathmandu holds a tournament where students can win scholarships to the University of Wolverhampton's 15-day Summer Camp. (college, 2020).

SOFTNEP

SoftNEP is a company creating world class online systems since 2005. The founder and CEO is Mr. Sunil Rijal. They design, develop, and host all spots of web, software, and mobile applications. As introduced, SoftNEP is a leading digital firm with extensive experience in creating both digital product strategies and support systems. Their team consists of skilled designers, efficient programmers, and diligent project managers. The company has been providing comprehensive product services for 16 years, covering everything from ideation to design and marketing. Each year, they provide 5 to 10 new employees with the opportunity to join the team. With the help of user-friendly design and marketing, they strive to enhance the product offering. Their expertise in application development is state-of-the-art, comparable to that of the latest software programs. SoftNEP specializes in developing web applications and also offers services such as Android and iOS mobile app development.
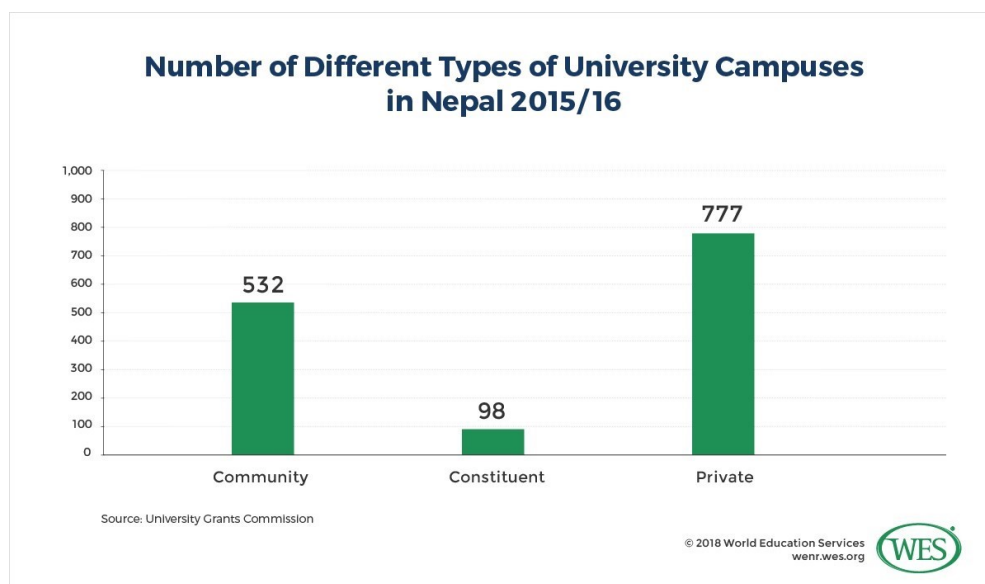
Services

- Software Development
- Web Development
- Mobile App Development

4.3.2. Comparing International and Local University

First of all, the education in Nepal there are two type Nepal University and foreign University. There are several scholarships and financial aid options available for students who want to do good for the future. Overall, the cost of studying is quite reasonable, and there are many different options available to help students. Likewise, Nepal university provides 4-year of course in reasonable price according to my research. To apply on Nepal university, we must do CMAT (Central   Management Admission Test).

Now day we can see that international education is being popular now days. Also, Past decade students have an opportunity to get foreign degree within Nepal itself. Foreign University provide the international degree. An international degree will broaden the possibilities to complete in international job market. Foreign University provide 3-years course. To apply for it we must complete some Entry requirements. Also, it is expensive than Nepal University.

Number of Different Types of University Campuses in Nepal 2015/16

Source: University Grants Commission

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wenr.wes.org

In this figure it is shown that student prefer to join private rather than Community and constituent. Private provide many facilities and education which number is more.

4.3.3. Critical Analysis

On 1st paragraph I have discussed SOFTNEP yearly they have 15+ online creativity, 500+ happy clients, 1000+ projects delivered and 100+ professionals engaged. The project they have done are on Travels, Radios, Mobile Apps, News portals, Websites, Software. They have mainly focus on web app development. For the opportunity's education, skills and knowledge should be need. SOFTNEP works are on app development in which java, python and C++ knowledge should be required. Our university also provide these modules which area required for the job.

Yearly they are looking few Marketing expert, Web Designer, React Native Developer, Software Engineering, and other candidate experience and five efforts for the better upgrade for the company. They hire few candidates for their job.

4.3.4. Future Relationship

Education is an invaluable tool that plays a significant role in our daily lives. It sets us apart from other forms of life on earth and helps us discover our passions and develop the skills we need to feel confident in our abilities. The standard of education continues to improve annually. To excel in any position, one must be educated, proficient, and experienced. University students study programming languages such as Python, C++, and Java. There are numerous universities offering diverse programs, teaching methods, and course options, ensuring that there is a wide range of subjects available at each institution.

Graduates are equipped with the ability to operate both solo and as a team member, a crucial skill for success in the professional world. Through my observation, I observed that mastery in programming and Java is crucial for securing a role at the company.

4.4. Conclusion

Education is an invaluable tool that plays a significant role in our daily lives. It sets us apart from other forms of life on earth and helps us discover our passions and develop the skills we need to feel confident in our abilities. The standard of education continues to improve annually. To excel in any position, one must be educated, proficient, and experienced. University students study programming languages such as Python, C++, and Java. There are numerous universities offering diverse programs, teaching methods, and course options, ensuring that there is a wide range of subjects available at each institution.

Graduates are trained to work both independently and as part of a team, which is essential in the workplace. During my observation, I noted that proficiency in programming and Java are the key requirements for positions at the company.

4.5. References

college, 2020. *colleges nepal.* [Online]
Available at: https://www.collegesnepal.com/foreign-university-affiliatedcollegesandcourses-in-nepal/ COLLEGE, H., n.d. [Online]
Available at: https://heraldcollege.edu.np
QS, 1994. *TOPUNIVERSITIES.* [Online]
Available at: https://www.topuniversities.com/universities/university-wolverhampton
[Accessed 2023].
 THE, 2023. *Times Higher Education.* [Online]
Available at:
https://www.timeshighereducation.com/worlduniversityrankings/universitywolverhampton

5. Professional Organization Report

5.1. Abstract

This study gives a general summary of IEEE, detailing its background, goals, services, products, competitive dynamics, and prospects. The conclusions from market research, financial analysis, and operational reviews are presented, together with ideas for improving the company's expansion and competitiveness. This study offers a thorough and data-driven examination of the company's present situation and potential for the future, and management.   Mention some suggestions for professional and academic growth as well.

5.2. Introduction

The IEEE, the leading engineering professional group in the world, is focused on advancing mankind with technology. Institute of Electrical and Electronic Engineers is what it stands for. Its goal is to build, maintain, and advance the fundamental technologies of the world. It supports the cooperation of goods and service industries in order to improve the standard of living and facilitate communication. IEEE is the world's largest technical professional society, committed to increasing revolution and technological superiority for the advantage of civilization. IEEE helps, develops, and advances international technology creation. IEEE SA, a pioneer in the development of industry standards across a large variety of technologies, transforms exactly how individuals living, work, and communicate by developing the functionality, resources, protection, and interconnection of goods and customer services.

5.3. Body

5.3.1. About Company

IEEE

It is designed to help professionals in all fields of science and technology, not including electrical, electronic, and computer science, as well as related professions, which form the institution of modern society. It was first mentioned in 1884, while electricity started to have a general impact on humanity. Since the 1840s, the telegraph, one of the oldest electrical enterprises, has connected the world with an information public services system more rapidly than the capacity of transport. The mobile phone, electric power, and lighting businesses were all in their primary periods.

About 1,000 employees work with IEEE to support its activities. Key executives and the Executive Director make up the Management Council. It oversees the IEEE's personnel management. Since January 2017, Karen Bartleson has served as IEEE's president and chief executive officer. (pradesh, 2023)

The societal roles of the technologies developed under the supports of IEEE grew throughout the following decades, affecting more aspects of people's lives and spreading around the globe. IEEE Organizations developed from the prototype institutions' professional associations and technical councils. At the start of the twentyfirst century, the IEEE has 39 Societies, 130 journals, businesses, and journals, more than 300 meetings per year, and 900 active agent requirements to serve the needs of its members. IEEE has become a global institution to improve its skill in providing manufactured goods and services to members, industry, and the general society. Online, you can access publications, educational activities, and member services such as election and renewal. IEEE will have over 395,000 members from 160 countries by 2020. IEEE continues the world's greatest technical professional society due to its large global network of countries, regions, publications, web services, and conferences.(organization, 2023)

Besides electrical engineering and computing, a wide range of other topics are also of interest to IEEE, including microparticles or biomedical engineering, biology, robots, electronics, and many others.

IEEE concentrates on the following topics:

Electrical Engineering

Electrionics Communication Engineering

Computer Enginnering

Information and Communication Techology

5.3.2. Advantages

It is the technological profession society. It aims to advance modernization and technology quality for the benefit of civilization. Let's us see the advantage IEEE brings to society. The advantages are as follows:

- Data or information communication is faster than transportation speed.
- It offers manual module control for transmission, and data or information transmission is faster than transportation speed.
- Because of its multi-path data transmission, it lowers the possibility of errors.
- It is a sociologically positive nonprofit organization.

5.3.3. Disadvantages

Having discussed the advantages of IEEE, now its disadvantages. The disadvantages are as follows:

- It includes unlawful use.
- Network protection is in threat.
- Regular upkeep is necessary.

5.4. Conclusion

The goal of this study was to discover reasonable solutions for repetitive motions. In terms of development and evolution, the information technology platform has advanced quickly. Student member programs, branch activities, and student conferences should all be available for student development to help the organization's future. through membership in and participation in the Career Technical Society, volunteer and leadership opportunities, and resources for IEEE publications and research.

5.5. References

organization, I., 2023. *IEEE advancing Technology for Humanity.* [Online]

Available at: https://www.ieee.org/about/ieee-history.html

pradesh, U., 2023. *BYJU'S EXAM PREP.* [Online]

Available at: https://byjusexamprep.com/ieee-full-form-i

6. Presentation

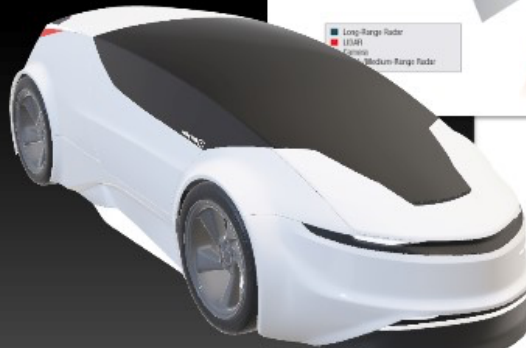## Key Technologies Used

- Sensor
- Actuators
- Complex algorithms
- Machine learning System
- Powerful processor to execute Software
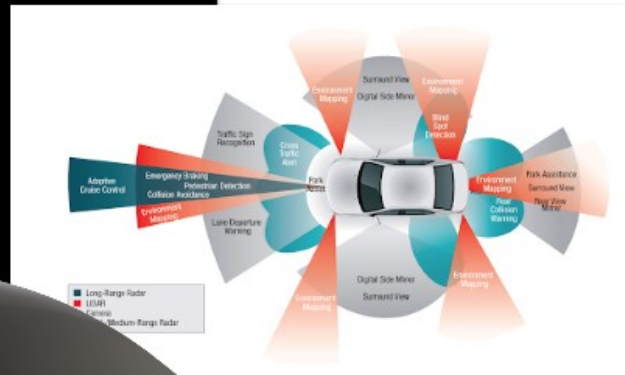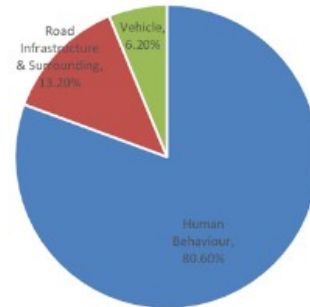
Benefits of Autonomous Vehicle

- Increase mobility for disabled and elder people
- Increase fuel efficiency

Challenges in implementing Autonomous Vehicles

- Safety and reliability
- Technical complexity

Challenges in implementing Autonomous Vehicles

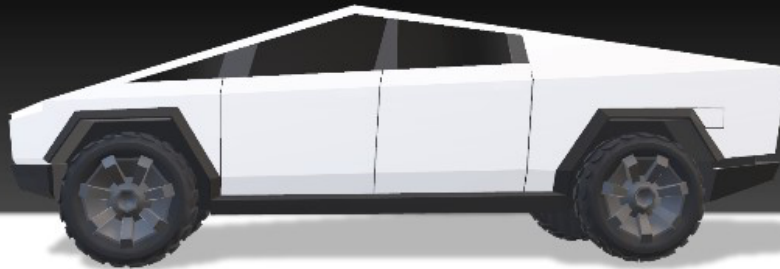- Regulation challenges
- Data privacy and security

Current Status

- Advance in sensors
- Development of high-definition maps
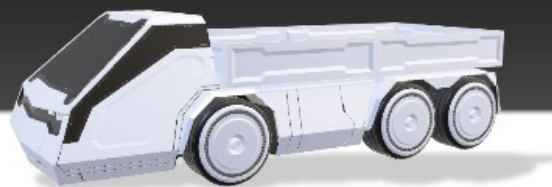- Increased testing and development

The Future

- Job displacement
- Improved efficiency

Conclusion

- Potential impact on industries such as agriculture, construction and delivery

- Predictions for the deployment of autonomous vehicles

- Potential impact on society and economy.

Thank you

Feel free to ask ..