VIDUL KABRA

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A highly motivated and hardworking individual keen on learning new topics and to keep up with latest technologies to improve and develop personal skills to improve products and to find solutions to existing problems, able to easily learn and adapt to new cultures.

EDUCATION

University of Surrey   **2020-2024(expected)**
MSc (Hons) Electronic Engineering
Modules Studied:
AI and AI programming, Advanced topics in computer vision and deep learning, Speech and audio processing and recognition, Internet of things.

University of Surrey   **2016-2020**
BENG(Hons) Electronic Engineering with industrial placement and one year exchange
Modules studied:
C Programming language and laboratory and professional design, Data and internet networking, computer vision, robotics, object-oriented design and programming (java and C++), computer graphics. Worked as a Labs demonstrator helping first year students in engineering labs.

Nanyang Technological University, Singapore   **2017-2018**
Exchange Student (Second year of undergraduate)

WORK EXPERIENCE

University of Surrey
Research intern   **July 2020 – Sept 2020**
- Worked as a research engineer intern at the University of Surrey.
- Duties include Using C# to develop a program that uses a research paper in order to develop a program that is used for more accurate SRIM implantation.
- Gained extensive experience in working with C# language and how to use it to develop a program.
- Gained Understanding of reading text files to C# program and to use Regex.

Applied Materials (MA, USA)   **Aug 2018 – Aug 2019**
Process Engineer Intern
- Worked in the R&D department of Applied in **Gloucester, Ma, USA**
- Duties included running experiments, collecting and organizing all the data and presenting all the data at weekly meetings to senior engineers.
- Extensive experience in developing semiconductor processes for PECVD etch and dep tools
- Experience in developing Design of experiments in order to run experiments in order to improve a process.

- Helped teach new recruits at the company on how to run the new tools along with teaching how to run them and troubleshoot the tools.

ACADEMIC PROJECT

Third Year project: -
- Designed a software in python that can read a large batch of test files in python using the pandas library to organize the data in a data frame for analysis mistakes and then feeds it into the Silvaco CAD program for mass testing of data and reads the results produced to check against reference for detecting if updates to the program caused any bugs in the program and to help in identification of these bugs.
- Gained skills in regex, text file analysis, python, pandas, NumPy library and how to analyze large datasets of data and how to organize them.

Additional Skills

- **IT skills:** -   Excel, PowerPoint and Word
                        Moderate Experience in origin, TRYDYN. SIIMS for ion implantation simulation.
- Extensively used Excel and PowerPoint to collect and organize data in easy-to-understand slides and graphs.
- Experience in building and running AI deep learning models in Linux and WSL
- Experience using visual studio code to program and model deep learning models.
- Programming languages Known: - C, C++, C#, java, python – NumPy, Panda's, pytorch, google collab.
- **Languages**: -   Fluent in English and Hindi
                     Beginner German, Japanese
- Highly adaptable and open to new culture and work environment having lived in three foreign countries during my undergraduate degree and placement.
- Excellent communication, organization, Teamwork, Problem solving, communication skills.

PERSONAL INTEREST

- Have an interest in History and Geopolitics and an interest in keeping up to date to world affairs.
- Have an interest in learning new languages and cultures.

REFERENCES

Personal Tutor   **Previous Employer**
Dr. Tim Brown   M. Arif Zeeshan,
Senior lecturer in RF antennas and propagation   Senior Head,
University of Surrey.   Skyworks Solutions, Inc.,

t.brown@surrey.ac.uk   marifzee@hotmail.com