Uma Chandrasekhar
VP _ Technical Innovation

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California, United States of America.

With nearly twenty years of experience and multiple graduate /post graduate degrees in engineering, technology, management and leadership from three different countries of India, the United Kingdom and the United States of America, I have successfully secured a strong place for myself in the male dominated silicon valley, California. I have already lived and worked in silicon valley, India and silicon valley, United Kingdom, where I have been familiarized with hardware engineering, heavy machines engineering, software development, along with project management in the first decade of my career.

My work experience in India and the United Kingdom

I have developed software in high level languages such as C, C++, Java, and verilog too, the hardware description language and also worked in the Software development life cycle (SDLC) which has helped me to build my software programming career.

I have a good exposure to database solutions and various operating environments including Unix, Linux, Windows & iOS.

I have work experience in AI technologies, software research, software design and development along with system security too. My expertise in Project management software like Reports, Gantt charts, BMP solutions etc., has helped me in handling research, implementation and testing projects. I have work experience in both Agile and Waterfall methods of Project Management. My supreme knowledge in machine learning algorithms has elevated my career in many verticals of Artificial Intelligence and Internet of Things.

I started my career in the engineering design of high voltage electrical machines. Then I started working on system security, where I wrote software code to provide configuration upgrades. As a matter of fact, I have worked in a testing team doing a 'fix it project' for a short time as well in England, UK.

Then I moved to the United States of America.

In the last ten years, I have been working in managerial and executive roles, in silicon valley, California, United States of America, in various positions with multiple responsibilities in artificial intelligence, autonomous driving, digital transformation, and intelligent forecasting.

My fields of work are distinct, yet connected through the finer details of the engineering hub. The fields include hardware engineering, communication and information technology management, artificial Intelligence, AI based computer animation, predictive analytics, and smart devices.

I have thrived to set up accountability in computing systems, as computers have taken an enormous role in our lives, whether in the form of morning wake up call or afternoon conference meeting, or a dinner with family in the evening, AI trained computing systems are assisting us in our everyday activities, before I dedicated my full time to hardware research.

My prevailing field of work as a technical innovator is in the field of Nanotechnology. My present focus is on nano chips and nano materials, but the ultimate idea is to move on into nano robotics [Nanites] in the future.

My awe inspiring and knowledge sharing interest

I love sharing my work in the form of blogs and Vlogs and I write in **medium.com,** making sure my readers and audience can follow me and subscribe to me , if they find the topics interesting. Previously, I have written in **www.linkedin.com/pulse,** as well. I am going to start my Vlog on ' Deliberation - the essence of executive leadership' , shortly.

My Strengths

Silicon Valley , California is not for quitters and being self employed in this highly competitive environment is not an easy task to accomplish and I have done the same successfully, which illustrates my personal strengths in two folds - resilience and perseverance.

Nanotechnology in increased details

I love working in nanotechnology research , and my current research focus is High Volume Manufacturing of nano chips which has multiple applications, such as in advanced computing systems [super computers, quantum computers] and driving innovation in scientific research, simulations and data analytics.

Nanotechnology is spreading its wings into the filed of AI too, and it is used to optimize AI workloads, as AI accelerators, in fields such as NLP, machine learning and CRISPR technologies. As utilized in human device interactions, nanotechnology is being successfully experimented in wearable electronics, thus allowing cell level integration with human internal organs. The nano storage chips can be used to store peta bytes of data , saving enormous amount of server rooms.

My Hobby

Besides being a technologist, engineer, innovator, manager and executive, I find time to play piano. I am an amateur pianist and I am learning western classical music from famous composers such as Mozart, Chopin, Bach, Liszt , Vivaldi, Beethoven etc., completely using AI apps.

True to my words, I am using Artificial Intelligence based apps such as Piano note, Muse score, Piano Marvel, Piano practice, Simply Piano, Yousician etc., to learn western classical music.

My Contact Details

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