



Transform yourself
Transform our world

Sailesh Krishna Rao

Founder and Executive Director

Profile

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I am an environmentalist and **Human Earth Animal Liberation (HEAL)** activist by occupation, while a systems engineer by profession. I am currently working on systems engineering the Greatest Transformation in Human History to a climate healing civilization based on a growth-agnostic, plant-based, collaborative, ecosystems restoration economy from a climate heating civilization based on a growth-maximizing, animal-based, competitive, resource extracting consumer economy.

As a systems engineer, I led the creation of new digital communication technologies in support of the internet revolution for the first twenty years after graduation. During this time, I was primarily responsible for developing the world's first single-chip real-time **MPEG video encoder**, the IEEE **100BASE-T2 Ethernet** standard and the IEEE **Gigabit Ethernet on Copper 1000BASE-T** standard that is currently deployed in hundreds of millions of nodes worldwide. The Gigabit connection technology, 1000BASE-T, is the backbone of the internet even today.

After watching former Vice President Al Gore's slide show in December 2005, I made a significant change in my career and founded the non-profit organization, **Climate Healers**, in 2007, where I currently work full-time.

Experience

Founder and Executive Director, Climate Healers, Phoenix, AZ, USA (2007 – present)

Founded the non-profit, **Climate Healers**, established with an objective to implement a holistic, grassroots solution to climate change and the underlying system of normalized violence that led to the social and ecological crisis causing climate change.



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In 2023, participated in the **Oxford Union** debate on the proposition, “**This House Would Go Vegan**” and won it by a margin of 112-84.

Joined the Board of Directors of the **T. Colin Campbell Center for Nutrition Studies** in 2022.

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In 2022, co-authored the **Engineers Solutions to Scientists Warnings** paper on how to solve the ecological crisis facing humanity, introducing the **Seven Strategic Initiatives** (SSI) to implement the Greatest Transformation in human history to a climate healing civilization from a climate heating civilization.

Joined the **Universal Meals Advisory Council** of the **Physicians Committee for Responsible Medicine** in 2019.

In 2019, authored the **Climate Healers Animal Agriculture position paper**, published in the Journal of Ecological Society in 2021, establishing that with unbiased accounting, animal agriculture is the leading cause of climate change, responsible for at least **87%** of greenhouse gas emissions on an annual basis.

With an extensive network of grassroots activists, initiated the **Prevent Year Zero** campaign and the **Vegan World 2026** project.

With a multi-disciplinary team from the University of Iowa, developed and deployed the **Mewar Angithi**, a simple, low-cost device that improves the efficiency of traditional biomass cookstoves by 63% and reduces black carbon emissions by 89%.

With an IPCC land carbon expert, estimated the **Lifestyle Carbon Dividend**, the carbon drawdown potential of a global Vegan transition to be at least 265 GtC, more than the 240 GtC added to the atmosphere by human activities between 1750 and 2015.

Authored the book, “**The Pinky Promise**,” in 2023 to help find the innocence, humility and courage we need to solve our ecological crisis.

Edited and co-authored the book, “**Animal Agriculture is Immoral**,” in 2020 to expose the ethical case for a Vegan World by 2026.

Authored the book, “**Carbon Dharma: the Occupation of Butterflies**” in 2011 to lay out the case for a grassroots movement to solve our ecological crisis and what such a movement entails.



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Authored the book, “**Carbon Yoga: the Vegan Metamorphosis**” in 2016 to describe how we can go about implementing the necessary infrastructure upgrade in our civilization to achieve this transformation.

Taught online courses on **The Dharma of Global Sustainability** and **The Yoga of Global Transformation** through the Hindu University of America and **The Bhagavad Gita from an Ecological Perspective** through Climate Healers.

Executive Produced several documentaries:

I Could Never Go Vegan – 2024

Animals: A Parallel History – 2024

Milked – 2022

The Land of Ahimsa – 2022

The End of Medicine – 2022

They’re Trying to Kill Us – 2021

A Prayer for Compassion – 2019

What the Health – 2017

Cowspiracy: The Sustainability Secret – 2014

The Human Experiment – 2013

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Founder and CTO, Phyten Technologies, Freehold, NJ: 2004-2006

Led a technical team of six engineers in the specification and development of an IEEE **10GBASE-T** Ethernet communications device in 90nm CMOS technology.

Proposed a Tomlinson-Harashima pre-coder based on a Low Density Parity Check code for the IEEE **802.3an 10GBASE-T** standards specification and this was unanimously adopted by the task force in the final standard.

Director of Communications Systems, Intel Corporation, Morganville, NJ: 1999-2004

Led a team of 60 engineers across three sites (Sacramento, CA, Morganville, NJ and Haifa, Israel) on the system development and implementation of a Gigabit Ethernet on Copper controller device that was marketed by Intel as the **82547** series starting in 2004. Over 100 million of these devices were deployed under the Intel platform.



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**Director of Communications Architectures, Level One
Communications, Morganville, NJ: 1996 – 1999**

Led the specification and development of the IEEE 802.3ab Gigabit Ethernet on Copper (**1000BASE-T**) standard.

**Founder and President, Silicon Design Experts, Inc., Morganville,
NJ: 1991 – 1996**

Led the specification and development of the IEEE 802.3y **100BASE-T2** standard.

Led the specification and development of the world's first, single-chip, real-time video encoder, which was marked by AT&T Microelectronics as the **AVP1300E** device.

**Distinguished Member of the Technical Staff, AT&T Bell
Laboratories, Holmdel, NJ: 1985 – 1991**

Designed and implemented several digital signal processing devices, a vertical filter, a horizontal filter and a high-speed static memory, in support of the burgeoning **High Definition Television** standard.

Designed and implemented several digital signal processing devices, a matrix multiplier chip and an adaptive, Finite Impulse Response filter chip, in support of the **Digital Subscriber Loop** standards work at AT&T Communications.

Education

Ph. D. in Electrical Engineering from the Information Systems Laboratory at **Stanford University**, Stanford, CA, 1986.

Thesis: Regular Iterative Algorithms and their Implementation on Processor Arrays.

M.S. in Electrical Engineering from the **State University of New York in Stony Brook**, Long Island, NY, 1982.

B.Tech in Electrical Engineering (Electronics) with Distinction from the **Indian Institute of Technology**, Chennai, India, 1981.

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Awards and Publications

Over 50 standards contributions to the ATM Forum and the IEEE 802.3 CSMA/CD Working Group

23 peer-reviewed technical publications

10 US patents and 3 Canadian patents

Designated as a **Climate Hero** by the Guardian Newspaper in 2023, cited as the “foremost voice on the green transition and the true scale of societal change required to save the planet.”

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Awarded the **Winsome Constance Kindness Medal** by the Winsome Constance Kindness Trust in 2022.

Awarded the “**Shining World Award for Earth Protection**” by the Supreme Master Ching Hai International Association in 2020.

in conjunction with Kimaya Rainy Rao, awarded the Inaugural **Homo Ahimsa Award** by the Interfaith Vegan Coalition in 2020.

Featured in the Documentary, “**Countdown to Year Zero**,” produced by Jane Velez-Mitchell of UnchainedTV in 2019.

IIT Madras Distinguished Alumnus Award in 2013.

Karmaveer Puraskar Global Indian Award by the Indian Confederation of NGOs (ICONGO) in 2008.

Intel Principal Engineer Award in 2003.

AT&T Bell Laboratories **Distinguished Member of the Technical Staff Award** in 1990.

5 AT&T Bell Laboratories **Exceptional Contribution Awards**

References

upon request.