

Engineering Futures Online: Spring 2021

First Contact: Communicating with Purpose

Date and Time: Tuesday, March 2, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Sandeep Satheesan **Free Registration:** <https://tinyurl.com/EFonlineMar2>

Let's Talk: Communicating about Problems

Date and Time: Monday, March 8, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Kiran Mhatre **Free Registration:** <https://tinyurl.com/EFonlineMar8>

It's Complicated: Communicating about Complexity

Date and Time: Tuesday, March 16, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Sandeep Satheesan **Free Registration:** <https://tinyurl.com/EFonlineMar16>

Investing Basics: Five Steps to Build a Disciplined Investment Strategy

Date and Time: Monday, March 22, 2021, 7:00-8:00pm Eastern (UTC -5)

Presenter: Matt Hennemann **Free Registration:** <https://tinyurl.com/EFonlineMar22>

Leveling Up: Problem Solving and Decision Making

Date and Time: Tuesday, March 30, 2021 8:00-9:00pm Eastern (UTC -5)

Presenter: Chris Reidy **Free Registration:** <https://tinyurl.com/EFonlineMar30>

Leading the Team: Understanding Style and Personality

Date and Time: Tuesday, April 6, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Christina Koch **Free Registration:** <https://tinyurl.com/EFonlineApr6>

Solidify Your Mindset as the Foundation of Your Professional Development

Date and Time: Thursday, April 8, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Jeff Perry **Free Registration:** <https://tinyurl.com/EFonlineApr08>

Leading the Change: Equity and Inclusion

Date and Time: Tuesday, April 13, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Kiran Mhatre **Free Registration:** <https://tinyurl.com/EFonlineApr13>

The Academic Career Path

Date and Time: Thursday, April 15, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Dr. Lauren H. Logan **Free Registration:** <https://tinyurl.com/EFonlineApr15>

Leading with Principles: Ethics

Date and Time: Tuesday, April 20, 2021, 8:00-9:00pm Eastern (UTC -5)

Presenter: Alan Paul **Free Registration:** <https://tinyurl.com/EFonlineApr20>



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The Engineering Honor Society

First Contact: Communicating with Purpose

Date: Tuesday, March 2, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Sandeep Satheesan, University of Illinois

Free Registration: <https://tinyurl.com/EFonlineMar2>

About the Session: Effective networking can foster learning, invite collaborations, and uncover new opportunities for personal and professional success. The “First Contact” module explores the ways that new people, new tasks, new resources and new contexts can impact interpersonal communications. Participants will learn the value of first contact in different settings (networking, elevator pitches, consulting) and build specific skills for communicating in unfamiliar situations, with the goal of developing connections, sharing ideas and building partnerships. Live Q&A welcome!



About the Presenter: My name is Sandeep Puthanveetil Satheesan. I am a Senior Research Programmer at the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign. I received my M.S. in Computer Science and Engineering from the State University of New York at Buffalo and B. Tech. in Computer Science and Engineering from Amrita University, India. My current research interests are data analysis and management, computer vision, unstructured data, and smart and connected communities. Most of my experience in my professional career, spanning about ten years, has been in academia. I am part of an international community of professionals with a relatively recently adopted name, Research Software Engineers (RSE). In this role, I collaborate with faculty, students (graduate and undergraduate), industry partners, and other RSEs to design and develop software to support their research. My work involves communicating with people from different research domains, understanding their research problems, and translating that into software that enables them to conduct their research better. Some of the challenges and opportunities experienced and observed during these interactions led me to grow an interest in professional skills development and training, specifically in the context of research software development, though generally applicable to other areas as well. As one of the initial steps, I completed training under the NSF-funded CyberAmbassadors Fellows Program in 2019. I am looking forward to sharing the knowledge that I have gained through this program and my RSE experience in general.

About EF Online: Engineering Futures (EF) is an award-winning professional development program offered by Tau Beta Pi that has served tens of thousands of engineers over the last four decades. Due to the pandemic, we are offering “EF Online” during 2020-21 – these sessions are open to everyone (students, alumni and non-members). While we look forward to returning to our tradition of small, interactive, in-person EF sessions once the pandemic subsides, we also hope to retain elements of EF Online to make these professional development opportunities available to a broad audience. Questions and feedback may be directed to the Director of Engineering Futures, Dr. Katy Luchini Colbry, at tbp.def@tbp.org



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Let's Talk: Communicating about Problems

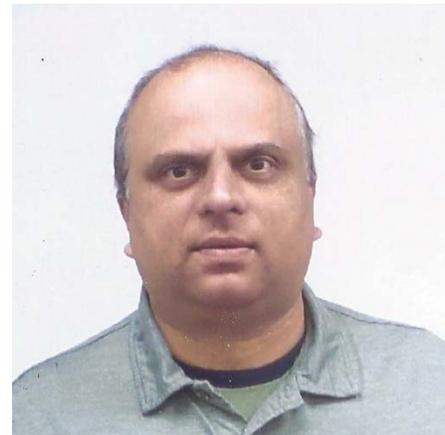
Date: Monday, March 8, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Kiran Mhatre, Harvard University

Free Registration: <https://tinyurl.com/EFonlineMar8>

About the Session: Strong interpersonal communication skills can foster success in both professional and personal situations. The “Let’s Talk” module focuses on building participants’ capacity to engage in meaningful, one-on-one conversations about challenging topics. Participants will explore common types of problems and practice skills for resolving ability, motivation and interpersonal problem situations. Live Q&A welcome!



About the Presenter: Kiran Mhatre is a Senior DevOps Engineer at Harvard University’s central IT department. He serves dual role of DevOps Engineer and Scrum Master. He is also a facilitator for Harvard’s IT Academy.

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It's Complicated: Communicating about Complexity

Date: Tuesday, March 16, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Sandeep Satheesan, University of Illinois

Free Registration: <https://tinyurl.com/EFonlineMar16>

About the Session: Engineers often find themselves working on problems that are both technically complex and complicated by differences in collaborators' expertise, backgrounds, and communication styles. The "It's Complicated" module focuses on helping participants understand complex conversations and practice skills for communicating more effectively in both the speaker and listener roles. Live Q&A welcome!



About the Presenter: My name is Sandeep Puthanveetil Satheesan. I am a Senior Research Programmer at the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign. I received my M.S. in Computer Science and Engineering from the State University of New York at Buffalo and B. Tech. in Computer Science and Engineering from Amrita University, India. My current research interests are data analysis and management, computer vision, unstructured data, and smart and connected communities. Most of my experience in my professional career, spanning about ten years, has been in academia. I am part of an international community of professionals with a relatively recently adopted name, Research Software Engineers (RSE). In this role, I collaborate with faculty, students (graduate and undergraduate), industry partners, and other RSEs to design and develop software to support their research. My work involves communicating with people from different research domains, understanding their research problems, and translating that into software that enables them to conduct their research better. Some of the challenges and opportunities experienced and observed during these interactions led me to grow an interest in professional skills development and training, specifically in the context of research software development, though generally applicable to other areas as well. As one of the initial steps, I completed training under the NSF-funded CyberAmbassadors Fellows Program in 2019. I am looking forward to sharing the knowledge that I have gained through this program and my RSE experience in general.

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Investing Basics: Five Steps to Build a Disciplined Investment Strategy

Date: Monday, March 22, 2021

Time: 7:00-8:00pm Eastern (UTC -5)

Presenter: Matt Hennemann, Northwestern Mutual Financial Advisor

Free Registration: <https://tinyurl.com/EFonlineMar22>

About the Session:

In this session, there will be a short presentation followed by Q & A, so bring your questions. Does investing intimidate you? After this session it will never intimidate you the again! Matt will provide an introduction to the basics of investing and cover a five-step strategy for building an investment portfolio. Live Q&A welcome!



About the Presenter: Matt Hennemann holds a BSME from Iowa State University (1994) and worked for 22+ years for Case New Holland in world-wide capacities such as Chief Engineer, Engineering Director, Product Line Director, and Latin America Product Development Director. He holds 11 US Utility Patents and is a Master Inventor. He had a desire to spend more time at home, and recently changed careers to share his financial wisdom with others. He is a fiduciary and is fully licensed in investment and insurance products anywhere in the USA. He is active in volunteer activities in the community and at church, and makes his home in Franksville, WI, where he lives with his wife and 2 children.

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Leveling Up: Problem Solving and Decision Making

Date: Tuesday, March 30, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Chris Reidy, University of Arizona

Free Registration: <https://tinyurl.com/EFonlineMar30>

About the Session: Brainstorming is a common activity used both to generate new ideas and as a team-building experience. The “Leveling Up” module focuses on helping CI Professionals become effective facilitators for problem solving and decision making activities. Specific skills for facilitating brainstorming sessions are discussed, along with practical tools for helping groups distill the results of brainstorming into actionable solutions and activities to help spark creativity. Live Q&A welcome!



About the Presenter: Chris Reidy is a Research Computing Facilitator at the University of Arizona. He takes delight in supporting activities particularly when it is something no one has done before. That could be creating a workshop series, or hosting workshops from other organizations. Sometimes it is presenting the research capabilities to department meetings. Since UArizona’s supercomputers are centrally funded, Chris enjoys giving away “free stuff”. In becoming a CyberAmbassador Chris plans to help researchers and research facilitators learn more skills to enrich the community.

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Leading the Team: Understanding Style and Personality

Date: Tuesday, April 6, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Christina Koch, University of Wisconsin

Free Registration: <https://tinyurl.com/EFonlineApr6>

About the Session: Engineers are often asked to work collaboratively and to take on leadership roles. When working in teams and leading projects, it is helpful to understand how to leverage one's natural personality and preferred leadership style most effectively. In "Leading the Team," participants will explore different aspects of leadership; reflect on their own leadership skills, values and goals; and develop a language for understanding and cultivating capable leaders. Live Q&A welcome!



About the Presenter: Christina Koch is a Research Computing Facilitator at the Center for High Throughput Computing (CHTC), at the University of Wisconsin – Madison. She supports researchers at UW-Madison and across the United States who are transitioning their work to large-scale computing systems through a combination of personalized consultation, email support, and training opportunities. Christina also contributes to multiple community organizations for the research computing and data community, including the Campus Research Computing Consortium (CaRCC) as a call organizer and the Carpentries as an instructor trainer and lesson maintainer.

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Solidify Your Mindset as the Foundation of Your Professional Development

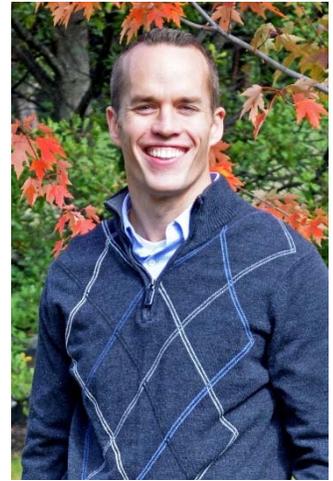
Date: Thursday, April 8, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Jeff Perry, Founder of More Than Engineering and Host of The Engineering Career Coach Podcast

Free Registration: <https://tinyurl.com/EFonlineApr08>

About the Session: Join Jeff Perry, Founder of More Than Engineering and Host of The Engineering Career Coach Podcast, to learn why few things can be more impactful in developing personally and professionally as cultivating positive mindsets. This session will cover what mindsets are, why they are important to our development, and give useful tips and resources for developing yours in a more positive way. Live Q&A welcome!



About the Presenter: Jeff is a leadership and career coach that helps engineers and technical professionals realize their true potential. He loves helping people make intentional career transitions and optimize their success. Clients often work with Jeff on developing soft skills like leadership and mindset to unlock their hidden potential and remove self-imposed roadblocks. As a software developer, mechanical engineer, and technical leader, Jeff founded More Than Engineering in 2019 to bring together his love for engineering and technology with his passion for helping people improve and live more fulfilled lives. In 2020 he became host of [The Engineering Career Coach Podcast](#) in partnership with The Engineering Management Institute. He now runs a program called the Engineering Career Accelerator to help engineers and tech workers have the training and support to effectively move through career transitions. You can find more information at engineeringcareeraccelerator.com or morethan-engineering.com.

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Leading the Change: Equity and Inclusion

Date: Tuesday, April 13, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Kiran Mhatre, Harvard University

Free Registration: <https://tinyurl.com/EFonlineApr13>

About the Session: Diversity, in many dimensions, offers both challenges and opportunities to any relationship. Learning to identify, reflect upon, learn from, and engage with diverse perspectives is essential to fostering effective relationships and vibrant intellectual environments. Live Q&A welcome!



About the Presenter: Kiran Mhatre is a Senior DevOps Engineer at Harvard University's central IT department. He serves dual role of DevOps Engineer and Scrum Master. He is also a facilitator for Harvard's IT Academy.

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The Academic Career Path

Date: Thursday, April 15, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Dr. Lauren H. Logan, Ohio Northern University

Free Registration: <https://tinyurl.com/EFOnlineApr15>

About the Session: In this session, attendees will learn what is involved in pursuing an academic career path (e.g., tenure-track professor), and how to be successful in your academic career. Advice for every step of the process (undergraduate education up through applying to and interviewing for faculty jobs) will be covered, with special emphasis on how to ensure your time, resources, and effort set you up for success in academia. Undergraduate students, graduate students, and working professionals pursuing a faculty position are the target audience, but anyone is welcome to attend! Ample time will be given for questions and discussion. Live Q&A welcome!



About the Presenter: Dr. Lauren H. Logan is an Assistant Professor of Civil and Environmental Engineering at Ohio Northern University. Lauren planned from an early age to follow the academic path and become a professor, as she feels knowledge creation and inspiring students to “do more, be more” are the keys to a successful future for society. While on a National Science Foundation fellowship, Lauren earned her Ph.D. from the Energy-Water-Environment Sustainability program at the University of Illinois at Urbana-Champaign. Her research focuses on quantifying the impacts of thermal pollution from thermoelectric-power-plant water use on aquatic ecosystems. Lauren also holds B.S. degrees in Electrical Engineering and Geological Sciences from Ohio University (where she was initiated into Tau Beta Pi in 2006), and a M.S. degree in Biological Sciences from Purdue University. Active in Tau Beta Pi, Lauren has served in roles at the chapter and national level including Chapter President (OH-D), Alumni Chapter President (Central Illinois), Chair of the Student Advisor Board, Chapter Advisor (OH-D, IN-A, OH-I), and is currently a D7 District Director. Lauren has attended every national convention since her induction into TBP, and she was a TBP scholarship and fellowship recipient. She also volunteers for Ohio 4-H as a judge and contributor to Engineering Excitement Day at the Ohio State Fair, and she is passionate about the recruitment and retention of under-represented minorities into engineering programs. Lauren is married to Dan Newkirk (a mechanical engineer), and together they have three pets, Gandalf the cat, Gimli the hedgehog, and Greg the cat. Lauren and Dan enjoy visiting amusement parks to ride roller coasters, and watching cheesy horror films together.

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Leading with Principles: Ethics

Date: Tuesday, April 20, 2021

Time: 8:00-9:00pm Eastern (UTC -5)

Presenter: Alan Paul, Giant Angstrom

Free Registration: <https://tinyurl.com/EFonlineApr20>

About the Session: Engineers play an important role in both teaching and modeling ethical behavior. There are ethical issues centering on the underlying technical work, as well as ethical issues surrounding the relationships between engineers and their colleagues, supervisors, and the public. Reflecting upon and discussing ethical behavior is an important part of becoming an effective engineer. Live Q&A welcome!



About the Presenter: Alan Paul retired from the University of California in 2012 after serving in several senior administrative positions. (Including Director of Strategic Initiatives in UC Riverside's College of Natural and Agricultural Sciences, Deputy Director for Special Projects in UCLA's Brain Research Institute, and Program Director in the UCLA Anderson School of Management's Office of Executive Education Programs.) In those roles, he was responsible for the design, funding and implementation of large institutional projects. Alan's firm, Giant Angstrom Partners (giantangstrom.com), serves government, universities and non-profit organizations. Most of his work now centers on training and coaching university leaders in program design and proposal development. He has also consulted for school districts, health care organizations, law enforcement agencies and faith-based organizations. Past projects include program design and evaluation, proposal development and writing, business planning, board retreats, policy analysis, economic development planning, and executive education. Giant Angstrom applies theory to real problems to solve problems of organizational development. Alan is now writing his dissertation in economic geography, examining the university as an industrial system and its role in regional development. He was born in NYC, grew up in rural Arizona, attended the University of Wisconsin and now resides in Los Angeles.

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