

**Mo. Deghani, Ph. D., P.E.**

(US Citizen, DoD Top Secret and DOE Q Clearances)

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Growth minded executive with demonstrated ability to identify grand opportunities, develop vision, formulate focused strategies, plan solutions and execute implementation plans. Experienced in organizational change management, policy development and oversight of academic/government/private sector collaborative programs. Record of success in establishing joint government/industry/university centers and institutes including ERCs and UARCs. Experienced in building inter-disciplinary academic and industry teams that have successfully and efficiently developed innovative educational, research and multi-modal technology transfer programs.

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- Education:** BSME (1980), LSU; MSME (1982), LSU; Ph.D. (1987) Mechanical Engineering, LSU  
Postdoctoral NSF Internship (1988), MIT
- Leadership:** Have led large, multi-disciplinary organizations in non-profit, university and national laboratories. Have successfully established integrating academic initiatives between universities and between colleges within the university. Examples include the establishment of two new National Research Centers and a multi-disciplinary, multi-cultural Systems Institute (JHU SI) at Johns Hopkins University to conduct solution-inspired research through fusion of policy and technology in disciplines such as medicine, network enabled manufacturing, energy and infrastructure. Have managed change in organizations where change of direction by sponsors and external factors is more of the norm rather than exception. Have built an impressive level of university/industry collaborations to perform sponsor-focused research and enable technology transformation.
- Collaborative Teambuilding:** Track record of building faculty research teams in collaboration with national laboratories and industry. Examples include:
- JHU ICU systems integration team of Hopkins physicians, JHU Whiting School of Engineering faculty and APL system engineers to develop integrated ICU systems.
  - Negotiated and established a \$60M UARC (SERC) contract at Stevens. The Systems Engineering Research Center (SERC) is a 22-university consortium.
  - Establishment of External Relations with Academia office at Lawrence Livermore National Lab. The effort resulted in formation of 27 collaborative teams between LLNL, 9 campuses of UC and 14 other universities from across the country.
- Innovation & Entrepreneurship:** Conceived and developed the strategic and business plans to establish the Office of Innovation and Entrepreneurship (I&E) at Stevens. Raised endowment funds to establish fully 60 funded I&E Ph.D. fellowships and 60 funded I&E undergraduate Summer Scholarships. Established the first ever Stevens Venture Center (SVC). Within one year of creation, SVC houses 33 start-up companies.
- Policy and Budget Management:** Established and headed a broad-based university level policy committee to decipher and updated existing policies and to identify needed new policy for emerging situations. Served as a member and later was asked to head the policy committees of Lawrence Livermore National Lab where we reviewed and updated all lab-level policies. A significant level of communication was needed to ensure University of California (LLNL's managing body) and DOE requirement alignment. Established a Research, Innovation and Entrepreneurship budget process to ensure judicious allocation of resources. The effort included establishment of new incentive programs, fund raising campaigns and establishment of impressive scholarship programs. I work closely with the Office of Development and participate in many of the University fund raising activities nationwide.
- Communication:** Outstanding communication skills. Have effectively and persuasively communicated many initiatives to external sponsors, corporate board levels and all levels of organization. Regularly present at the alumni chapters. Have authored papers, publications and presentations.

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**Stevens Institute of Technology, Hoboken, NJ**  
*VP of Research, Innovation and Entrepreneurship*

**2013-Present**

*Professor of Systems and Enterprises*  
*Professor of Mechanical Engineering*

***Responsibilities include:***

- Lead and managed all administrative and business services of the Stevens Research Enterprise, Intellectual Property (IP), and Technology Transfer (TT) functions.
- Developed multi-year actionable strategic plans to achieve research and IP growth for the University and the fourteen Centers and Institutes including four National Centers.
- Established the Stevens Venture Center (SVC) including identification of its Board of Directors, Entrepreneur In Residence (EIR) and incubator policies.
- Conceived and created Stevens first ever Incubator.
- Jointly with Deans of Schools, established comprehensive research Policies and Procedures documents that serves as basis for creation and conduct of new centers and institutes and guide the IP, entrepreneurship, and Technology Transfer functions.
- Jointly with Deans of Schools, established the entrepreneurial curriculum and created a 4-course Entrepreneurial Thinking (ET) courses now required by all engineering and science majors. Other schools within the university are adopting the approach.
- Established policies to insure the intellectual and programmatic excellence of each unit, incentivized mission-enhancing collaboration and cooperation, and encouraged academic units to set and maintain the highest goals for scholarship in their respective research areas.
- Negotiated the contractual terms of Systems Engineering Research Center (SERC). SERC is \$60M DoD National Systems Engineering Research Center and one of the 14 National UARCs (University Affiliated Research Center).
- Increased Stevens funded research by incentivizing multi-university research programs, new revenue generating ideas, and establishing a network of cooperative programs with 22 universities, federal funding agencies and foundations. This has been a remarkable success given the eagerness of other institutions to participate.
- Increased the research funding by 37% in three years through establishing external and internal bridges.
- Established collaborative partnership with 12 universities for multiple research and educational joint degree programs.
- Created a uniform approach to management of our 14 Centers and Institutes and their annual budget. These include four national centers of excellence with multiple university membership.
- Initiated and advanced the “Stevens Global” concept and established educational and research initiatives with 37 international universities, research centers and educational communities through individualized MOUs.
- Establish collaborative research teams between Steven’s research faculty and DoD, DOE and other national laboratories. To date we have established multiple research programs with three DOE laboratories: Lawrence Livermore National Laboratory, Sandia Labs and Brookhaven National laboratory.
- Establish industry partnership programs in the five strategic pillars of the university that include Energy, Healthcare, Systems, Defense and Financial Systems. The program has resolved the long-standing issue of IP ownership with industry. As a result, we have established collaborative education and research partnership with 41 industries and corporations.
- Developed Strategies to increase industry and foundation funded research and faculty entrepreneurial participation. With a remarkable level of success in identifying and capturing multiple large external funds.
- Serve as liaison with federal and state agencies related to research and economic development.
- Established research incentive programs to increase application-driven research toward entrepreneurial IP enhancement.
- Developed and deployed metrics to gauge performance and drive research enhancement through establishment of Faculty Support Center (FSC) and Research Support Center (RSC).

**Johns Hopkins University**

2008-2013

***Professor of Mechanical Engineering & Founding Director, Systems Institute, JHU SI******Accomplishments include:***

- Established a national-level university-based institute to foster university/industry/government collaborations to identify and develop funded new research in emerging application fields of healthcare, network enabled systems, infrastructure, energy and advanced manufacturing. The effort has been a remarkable success.
- Established an impressive level of collaborations with JHU School of Medicine and the JHU Bloomberg School of public health in the areas of hospital knowledge systems, operational optimization, large electronic data management systems, and Human Services Interoperability Architecture.
- Developed SI strategic plan and technical & operational directions through consensus of internal and external stakeholders.
- Established the institute's organization including identification and formation of Executive Governing Boards and a Technical Steering Committee.
- Developed the Institute's business plan and established links to the university's administrative services and tools. These include accounting services, financial accounting and recording, contract and grant accounting, operations and resource management and commercialization/technology transfer offices.
- Developed the research, educational and applications missions of the institute, and designed the academic infrastructure to guide and support these activities.
- Developed and implemented memoranda of understanding between various entities of the JHU and sponsor organizations including Hopkins Medicine, Public Health, Engineering and APL.
- Developed funded projects in areas of Computer Integrated Medicine (CIM), Public Health, and Infrastructure. Received a large private grant to design and build (in construction) a dedicated SI center.
- Negotiated three "teaming" agreements with three national defense "prime contractors" and obtained "first right of refusal" in SI research focus areas.

**Johns Hopkins University, APL**

2008-2013

***Associate Laboratory Director for Engineering & Sciences******Member of the Executive Council******Accomplishments include:***

- Led and managed all administrative and business functions of the organization that included 11 Engineering and Sciences Departments, Human resource, finance, IT, scientific computing, legal, and external interfaces.
- Developed multi-year actionable strategic plans for the 11 Department, 500+ person, \$150M organization.
- Developed technology and business Road Maps for our 11 Engineering and Sciences Departments.
- Developed strategies to ensure a necessary research infrastructure is available and aligned with existing research strength and emerging research opportunities for the largest University Affiliated Research Center (UARC) that was successfully managed to extremely tight budgets, schedules and technical specification.
- Launched an aggressive reorganization of the entire enterprise to properly execute our strategic plan.
- Established the Quality Management System (QMS) and developed the process documentation and staff expertise to successfully achieve Aerospace industry AS9100 and ISO 9001 certification.
- Deployed metrics to gauge performance and drive improvement through implementation of an industry-standard LogiXML dashboard metrology system. Significantly reduced engineering defects by quickly identifying and eliminating systemic issues in engineering systems, subsystems and components.
- Implemented the Product Lifecycle Management (PLM) System that became the heart of our organizations configuration management system; was cited as best in practice by the QMS Registrar.
- Managed over \$80M in engineering facility capital investments during the last 4 years to improve research capabilities and engineering development.
- Served as liaison with federal and state agencies related to research and economic development.
- Participated in executive discussions and laboratory activities in technology transfer and commercialization.
- Managed over \$200M large new capital construction projects, campus infrastructure and technical facility engineering renovation. Led the architectural and construction contracting, design review and Design-Bid-Built efforts of three new System Integration (SI) and large office buildings.
- Coached and mentored the development of several new division-level managers, fostering their career growth and leadership skills in preparation for future executive roles in the organization.

**Lawrence Livermore National Laboratory, Livermore, CA****1996-2008*****Division Leader, New Technologies Division, LLNL*****2002-2008*****Director, External Relations with Academia (ERA), LLNL******Accomplishments include:***

- Directed the overall leadership, management and organization of the 350-person, \$120M engineering organization.
- Developed Strategic plans and the associated detailed implementation plans.
- Developed research and technology investment roadmaps for our 9 engineering core competency Departments of Biomedical Engineering, Process Systems Engineering, Nuclear Engineering, Structural Engineering, Fluidics and Heat Transfer Engineering, Laser Sciences & Engineering, Materials Engineering, Characterization and (large strain) Modeling & Simulation. Roadmaps were developed based on program need scenarios through forecasting, budgeting and cost control.
- Worked closely with funding federal agencies including DOD, DOE, DHS, NSF, NIH, and NASA to establish funded projects. The effort required establishment of multiple MOU and appointment of liaisons.
- Established the External Relations with Academia (ERA) program to augment internal research investments with external technical expertise through joint proposal development. The effort resulted in numerous collaborative teams, a robust post-doctoral program and 65% increase in our R&D funds.
- Established a culture of optimistic possibility thinking and continual learning. The mindset resulted in hiring exceptional talent that led to a highly motivated staff and post-doctoral workforce.
- Established a process of self-assessment and continual improvement through collection and analysis of customer surveys.
- Established and headed the Lab-Level Policy committee.
- Established and incentivized University-LLNL joint faculty/staff appointments. Over 70 joint appointments were established.

***Deputy Division Leader, New Technologies Division, LLNL*****2001-2002*****Accomplishments include:***

- Established the Project Management and Operations Office (PMOO) to improve project planning and execution of our strategic objectives.
- Developed performance appraisal, ranking, salary and day-to-day management processes of our 350-person organization.
- Guided the professional development of 14 Department Heads and Assistants, and 11 Technical Supervisors.
- Served as the program manager for the Lithium Production Reactor (LPR). Scope included extensive sponsor interactions, comprehensive requirements development, V&V processes, concept generation and selection, design reviews, fabrication, test, and installation of a major reactor system. Also responsible for development of various memorandums of understanding.
- Served as chairperson for numerous design reviews for the laser and diagnostic systems of the National Ignition Facilities (NIF); the largest laser system in the world.

***Department Head, Engineering Systems Design and Fabrication Group, LLNL*****1999-2001*****Accomplishments include:***

- Managed the technology development and transfer activities of 92 technical and scientific staff members. Worked with program partners to define and prioritize research projects and made results available to entire LLNL engineering community.
- Recruited 22 R&D and design engineers, oversaw the annual performance appraisal, ranking, salary and day-to-day management of 92 staff engaged in R&D, T&E and design, analysis, fabrication and assembly of prototype hardware systems.
- Established the first ever Rapid Response Technical Team (RRTT) to respond to challenging urgent technical needs of LLNL programs. This was a huge success and resulted in multiple service awards.
- Established a robust MRP system to manage design and fabrication tasking responsiveness, efficiency and task order management in support of multiple science and engineering organizations.
- Instituted a continual education program in design, analysis and systems engineering.

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***System Engineer (then manager), Engineering Systems Design and Fabrication*** **1997–1999*****Accomplishments include:***

- Designed and built a \$10M Spheromak (Spherical Tokamak) Magnetic Fusion Reactor system. Then based on the anticipated results, developed and implemented unique diagnostic systems.
- Designed and built biomedical systems. Developed requirements and design documents. Performed design analysis of mechanical and electromechanical systems.

***Scientific Staff, Chemistry & Materials Science Directorate, LLNL*** **1996–1997*****Accomplishments include:***

- Conducted experimental and numerical analysis of large strain deformations of shape memory alloys and “smart materials” using elasto-plastic non-linear finite element codes.
- Developed parametric studies to optimize manufacturing processes using non-linear FEM codes.
- Developed robust models, then designed and fabricated prototypes. The effort resulted in development of con-ops for spin forming processes that resulted in significant material and 30% cost savings.

**Ohio University, Athens, Ohio** **1987-1996*****Tenured member of the Faculty of Mechanical Engineering Department******Accomplishments include:***

- Developed and taught graduate and undergraduate courses in engineering design, system design, and design optimization.
- Established a portfolio of funded research and published/presented the results in peer-reviewed journals and at international/national conferences.
- Supervised Ph.D., and Masters theses.
- Chaired or served on university, state, national and international committees.
- Elected senator and served for two terms (until my departure in 1996) as the representative of the College of Engineering in the faculty senate.
- Received many awards including the “best professor of the year” award.

**Mechanical Engineer, Centerpoint, Inc. (While pursuing Ph.D.), Baton Rouge, LA** **1984–1985*****Accomplishments included:***

- Performed failure analysis of engineering systems.
- Developed models, then built prototypes of systems subject to adverse operational conditions.
- Developed optimal design parameters for components and systems for offshore oil industry.

**Mechanical Engineer, Ethil Corp. (While pursuing Ph.D.), Baton Rouge, LA** **1983–1984*****Accomplishments included:***

- Developed requirement documents for a classified all-carbon reactor through extensive customer interaction. This was a proof of concept project.
- Designed the all carbon (coal) reactor and performed parametric studies. Then investigated manufacturing methodologies to fabricate the highly brittle reactor.

**Professional Activities and Societies Membership:**

- Member of national and international boards and advisory committees
- Member of professional societies including INCOSE, CSUN, ASME, ASEE, PMI
- Chairman, Education Committee, ASME
- Chairman, Committee on Engineering Accreditation (CEA)
- Commissioner of the Accreditation Board for Engineering and Technology (ABET). To date have reviewed: University of Wisconsin, Yale, MIT, Rutgers, U. of Massachusetts, US Naval Academy, Vanderbilt, Carnegie Mello, U. of Nebraska, U. of North Dakota, King Fahd U. of Petroleum and Minerals, U. of Virginia (visit team chair), Clemson (visit team chair), Purdue (visit team chair), Oklahoma state (visit team chair), Connecticut (team chair), University of Rhode island.
- Chairman; 2 Ph.D. dissertation & 13 M.S. committees

**Open Literature Publications (not listed are over 300 classified DoD (APL) and DOE (LLNL) National Laboratory publication):**

- Clatterbaugh, G. V., Trethewey, B., R., Dehghani, M., M., et al., Engineering Systems for Extreme Environments, JHU Technical Digest, Vol. 29, Num. 4, 2011
- Hamidzadeh, H. R., & Dehghani, M. M., *The Measurement of Dynamic Properties for an Elastic Half-Space Medium*, Proceedings of the ASME Design Engineering Technical Conferences; Mechanical Vibration and Noise; Long Beach, CA, pp. 2091-2096, 2005
- Luo, A. C. J., Dehghani, M., & Hamidzadeh, H. R., *Vibration of Soil and Foundation – Literature Review*, Proceeding of the ASME IMECE2005-81506, Vol 118; Part 2, Orlando, FL, pp. 1061-1072, 2005
- Dehghani, M. M., & Ryan, E., *Challenges of Strategic Planning in Research and Development Organizations*, ASQ/QMD 15th Annual Quality Management Conference, Phoenix, AZ, 2003
- Hamidzadeh, H. R., & Dehghani, M., *Linear In-Plane Free Vibration of Rotating Disks*, Proceedings of the ASME 17th Biennial Conference on Mechanical Vibration and Noise, Las Vegas, NV, 1999
- Hamidzadeh, H. R., & Dehghani, M. M., *Dynamic Stability of Flexible Cam Follower Systems*, Proc. Institution of Mechanical Engineers *Part K*; Journal of Multi-body Dynamics, Vol. 213, pp. 45-52, 1999
- Dehghani, M. M., Hamidzadeh, H. R., *Stability Analysis of Flexible Cam Follower Systems*, Proceedings of ASME international Congress and Exposition (WAM), Anaheim, CA, pp. 189-194, 1998
- Hamidzadeh, H. R., Nepal, N., Dehghani, M. M., & Han, R.P., *Transverse Vibration of Thin Rotating Disks – Nonlinear Modal Analysis*, Symposium on Dynamics, Acoustics & Simulation, Vol. DE 98. ASME International Mechanical Engineering Congress and Exposition, Anaheim, CA, pp. 219-225, 1998
- Hamidzadeh, H. R., & Dehghani, M. M., et.al. *Evaluation of Dynamic Properties for an Elastic Half-Space Medium*, Proceedings of the Third World Conference on Integrated Design and Process Technology, Vol. 6, Berlin, Germany, pp.1-7, 1998
- Hamidzadeh, H. R., & Dehghani, M. M., *Soil-Foundation Interaction*, Proceedings of the First International Symposium on Impact and Friction of Solids, Structures and Intelligent Machines, Series on stability, vibration and control of systems, World Scientific, Series B, Vol. 14, pp. 35-38, 1998
- Dehghani, M. M., et. al, *Overview of the SSPX Project*, Bulletin of the American Physical Society, Plasma Physics, Vol. 42, No. 10, 1997
- Rasty, J., Dutta, N., & Dehghani, M. M., *Residual Stresses Induced by CO-Drawing of Circular Rods*, Proceedings of the Fourth U.S. National Congress on Computational Mechanics, San Francisco, CA, 1997
- Rasty, J., Dutta, N., Dehghani, M. M., and Rassaian, M. "Finite Element Analysis of Residual Stresses and Interface Shear Strength in Co-Drawing of Tubular Components," proceedings of the Society for Experimental Mechanics (SEM) Spring Conference, Bellevue, Washington 1997
- Dehghani, M. M., *Numerical Simulation of Conventional Spin Forming Process*, Proceedings of the Fourth U.S. National Congress on Computational Mechanics, pp 250-267, San Francisco, CA 1997
- Jia, Z., Gunasekera, J. S., & Dehghani, M. M., *Simulation of Hydraulic Expansion of Thin-Walled Tubes Using the Elasto-Plastic Finite Element*, Proceedings of the ASME Engineering Systems Design and Analysis Conference Vol. 75, PP. 140-158, Montpellier, France, 1997
- Dehghani, M. M., & Gunasekera, J. S., *Residual Stresses in Bi-Metallic Co-Extruded Products*, Proceedings of the ASME Engineering Systems Design and Analysis Conference, Vol. 75, pp 159-168, 1996
- Shih, Y.P., & Dehghani, M. M., *Numerical Modeling of Residual Stresses in Convex Die Upsetting Process*, Proceedings of the Society of Experimental Mechanics, Dearborn, Michigan, pp 214-232, 1993
- Dehghani, M., & Wang, S.S. (1992), *Product Augmented Hydrostatic Extrusion*, Vol. 1, Proceedings of the ASME Engineering Systems Design and Analysis Conference, Vol. 1, Istanbul, Turkey, 1992
- Rasty, J., Hashemi, J., Hunter, D. E., & Dehghani, M. M., *Finite Element and Experimental Analysis of Stresses Due to Quenching Process*, Proceedings of ASME Winter Annual Meeting, Symposium on Computational Methods in Materials Processing, MD-Vol. 39/PED-Vol.61, pp 195-202. Anaheim, CA, Nov. 1993
- Dehghani, M. M., et, al, *An Investigation of Hydroforming of Sheet Metals With Varying Blankholding Loads*, Proceedings of ASME Winter Annual Meeting, PED-Vol.61, pp 83-94, Anaheim, CA 1993
- Dehghani, M., & Samy, S., *Multiple Extrusion and Mechanical Characterization of Pb-Bi-Sr-Ca-Cu-O Superconductors*, Proceedings of IEXTRU '89, pp. 227-241, Athens, OH, 1989

- Dehghani, M., Ahmad, A., Capelletti, R., & Mahajan, S., *Coextrusion of Superconductive Wires*, Journal of Materials Shaping Technology, Vol. 7, No. 4, pp. 199-207, 1989
- Dehghani, M., Ahmad, A., & Gunasekera, J. S., *Fabrication of Superconducting Materials for Application as Wire or Ribbon Replacement*, Proceedings of ASM Conference on Near Net Shape Manufacturing, Columbus, OH, 1988
- Hartley, C. S., Dehghani, M., Iyer, N., & Male, A. T., *Defects at Interfaces in Co-extruded Metals*, Computational Methods for Predicting Materials Defects, ed. M. Predleannu, Elsevier Science Publishers B. V., pp. 357-366, Amsterdam, 1987
- Hartley, C. S., & Dehghani, M., Evolution of Microstructure during Cold Rolling, Proc. 7<sup>th</sup> ICSMA, ed by McQueen, H. et al., Pergamon Press, Vol. 2., pp 959-964, New York, NY, 1987
- Hartley, C. S., & Dehghani, M. M., *Residual Stresses in Axisymmetrically Formed Products*, Vol. 1, Advanced Technology of Plasticity, ed. K. Lang, Springer-Verlag, New York, pp. 605-611, 1987
- Dehghani, M., & Sehitoglu, H., *Optimization of Engine Controls Using Geometric Programming*, Proceedings of SAE International Congress & Exposition, Detroit, MI, 1983

#### Graduate Theses Supervised

- S. S. Wang, "Product Augmented Hydrostatic Extrusion of Composites," August 1994.
- K. Suk, "Modeling of Residual Stresses in Axisymmetric Deep Drawing Process," August 1995.
- M. Esmaili, "Development and Implementation of an Apparatus for Polymeric Piston-Ring Performance Tests in Controlled Environment," August 1993.
- R. K. Baker, "Design and Implementation of a Reciprocating Friction Force Measurement System for the Investigation of Dry Contact Bearings in Controlled Atmosphere," June 1993.
- Y.P. Shih, "Stress Patterns and Residual Stresses Developed in Curved Die Upsetting," January 1993.
- B. E. Carlsson, "Development and Implementation of a Test Rig for Investigation of Wear and Friction of Polymeric Journal Bearings Under Reciprocating Motion in a Controlled Atmosphere," August 1992.
- T. E. Katcher, "High  $T_c$  Superconductors: Melt Processing and High Flexibility Composite Conductor Construction," March 1992.
- R. W. Stage, "Analysis of Planar Spiral Displacer Spring for Use in Free-Piston Stirling Engines," November 1991.
- S. Nilkar, "Analysis and Computer Simulation of Divergent Extrusion Process," November 1991.
- B. B. Syam, "Analysis and Computer Simulation of Tube Extrusion Process," March 1990.
- S. L. Kuo, "A Three-Dimensional Finite Element Analysis of a Ball Valve Assembly," August 1991.
- W. Jiang, "An Investigation of Hydroforming Sheet Metal With Varying Blank Holding Loads," November 1990.
- S. Sekhar, "Multiple Extrusion of Superconductive Wires," March 1990.
- A. S. Sondor, "Analytical and Numerical Investigation of Billet Augmented Hydrostatic Extrusion," November 1989.
- A. Ahmad, "Fabrication of Superconducting Material for Application as Wire or Ribbon Replacement," August 1989.
- S. S. Wang, "Computer Simulation of Product Augmented Hydrostatic Extrusion," August 1989.

#### Courses Taught (Ohio U., U. of California, Johns Hopkins University and Stevens Inst. of Technology):

Dynamics  
 Manufacturing Processes  
 Junior M.E. Laboratory  
 Senior M.E. Laboratory  
 Engineering Design Process  
 Machine Design (Elements)  
 Senior Capstone Design Series  
 Methods of Engineering Analysis

Methods of Engineering Analysis  
 Advanced Machine Design  
 Experimental Methods in Design  
 Thermal Stress Analysis  
 Manufacturing Processes  
 Theory of Plasticity  
 Graduate Colloquium  
 Analytical Modeling of Manuf. Pro.

**Chairman, Co-Chairman, and/or Session Organizer**

- Numerous ASME Annual Congress technical sessions.
- Three National Congress on Computational Mechanics technical sessions.
- Several Engineering Systems Design and Analysis Conference sessions.
- Numerous plenary cross-disciplinary sessions.

**General SKA (Skills, Knowledge and Abilities):**

- Strategic and implementation planning.
- Formulating, then communicating vision.
- Ability to assemble teams around vision.
- Metrics and metrology.
- Experience with federal (DHHS, NIH, NASA, NSF) and DoD acquisition process.
- Experience with risk assessment processes and implementer of graded approach mitigation methods.
- Experience with self-assessment and continual improvement process including ISO and AS 9100 processes.
- Expertise in large project management systems; PMI certified PMP.
- Experience with the federal EVMS and change control processes.
- Staunch implementer of work environment safety principles and member of the PtD (Prevention through Design) committee of the National Institute for Occupational Safety and Health (NIOSH).
- In-depth knowledge of the Quality Function Deployment (QFD) and the House of Quality (HOQ) methodologies to ensure complete capture, V&V and subsequent system development specifications.

**Basic Management Philosophy:**

- Add value and mitigate harm!
- Tell truth to power-no matter how difficult the circumstance!
- Proactive teamwork, “open books,” full disclosure, and quality work on ALL tasks.
- Lead by consensus:
  - Everyone is heard and understood,
  - Decisions are made in good faith,
  - (Almost) everybody can live with the results.

**Security Clearance Levels:**

- US Citizen
- DoD Top Secret Clearance      2008-Present
- DOE Q Clearance                      1997-Present

**Personal:**

Married to Mina (Saffari) Dehghani, a pharmacist, we have one son, Devon.

**Hobbies:**

Flying: private pilot, multi engine, instrument rated.

Fishing: mainly fly-fishing.

Wrestling: member of the wrestling team 1977-1980 (74 Kg weight class). Occasional coaching.