

**Dr. Raju Dandu**  
**Department of Engineering Technology**  
**Kansas State University at Salina**  
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**Home Address**

**Raju Dandu**  
**1332 E. Minneapolis Ave**  
**Salina, KS 67401**  
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**RAJU S. DANDU** US Citizen, married, three children.

**Diploma in Automobile Engineering**, 1974, Kakinada, India.

**Dipl. Ing. Thermal and Nuclear Power Engineering**, 1981, Slovakia.

**Ph. D. Mechanical Engineering**, 1991, USA.

**TAC of ABET Evaluator.** (Technology Accreditation Commission of ABET)

Fluent in spoken and written **English, Slovak, Czech, Russian, and Telugu.**  
Understand **Spanish, Arabic and Hindi.** Familiar with **German and Italian.**



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## **CAREER OBJECTIVE**

To strengthen academics in engineering and engineering technology benefiting from skills gained in industry and academia.

## **STRENGTHS**

Extremely organized, punctual, resourceful, and a team player.

Able problem solver.

Love and enjoy challenge and goes beyond the call of duty to accomplish tasks.

Excellent interpersonal and language skills.

Experience in grant writing, report writing, professional development, and administering complex projects.

## **SKILLS**

1. Broad background and knowledge in engineering and engineering technology. Academic and industrial experience in mechanical, nuclear and manufacturing.
2. Developed, enhanced, and modified programs and curriculum.
3. Implemented technology into instruction.
4. Student recruitment, advising, career planning, and placement.
5. Incorporated assessment techniques into curriculum.
6. Secured funds for program and professional development.
7. Developed and established partnerships between faculty, industry and government.
8. Offered professional training through continuing education.
9. Involved in program, department, college, and university level committees.
10. Served in professional organizations at local and national level.

## EDUCATION

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**Ph.D.:** Mechanical Engineering, May 1991. North Dakota State University, Fargo, North Dakota.

**Dissertation:** Sequential Quadratic Programming Algorithm and an Optimal Mechanism Design.

**BSME/MS (Diploma Ing.):** Mechanical Engineering, May 1981. Slovak Technical University, Bratislava, Slovakia. **GPA** 3.8/4.0. **Graduated with Honors.**

**Thesis:** Design of a gas turbine system for Helium gas cooled high temperature nuclear reactor systems.

**Diploma in Automobile Engineering** May 1974. Andhra Polytechnic, Kakinada, India.

## TEACHING

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### ACADEMIC POSITIONS

- 2008 – Present** Professor of Mechanical Engineering Technology. Program Coordinator (2002-2008) of Mechanical Engineering Technology. Kansas State University at Salina.
- 1997 – 2002** Assistant Professor of Mechanical Engineering Technology, Kansas State University at Salina
- 1993 – 1997** Assistant Professor of Manufacturing Engineering, Program Coordinator, Universidad del Turabo, Gurabo, Puerto Rico.
- 1991 – 1992** Lecturer, Aero-Manufacturing Engineering Technology, North Dakota State University, Fargo, ND.

### TEACHING EXPERIENCE

#### **Associate Professor at Kansas State University-Salina, KANSAS**

**Courses taught** Machine Design, Reliability Centered Maintenance, Technical Graphics, Computer Numerical Controlled (CNC) Machine Processes, Material Strength and Testing, Industrial Instrumentation and Controls, Automated Manufacturing Systems II.

#### **Assistant Profesor at Universidad del Turabo, Gurabo, PUERTO RICO**

**Courses taught** Introduction to Engineering, Engineering Graphics, Computer Aided Manufacturing, CAD/CAM, Robotics, Manufacturing Processes, Quality Control, Production Planning, and Control.

#### **Lecturer, North Dakota State University, Fargo, NORTH DAKOTA**

**Courses taught** CAD, Calculus, College Algebra and Trigonometry, Manufacturing Methods.

## INDUSTRY

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### INDUSTRIAL EXPERIENCE

- 2007 Summer** Consultant for Cashco Inc., Ellsworth, KS. Offered training in strain gage application in product burst test to comply product certification of pressure reducing valves used in gas and petroleum industries.
- 2006- 08 Summer** Consultant for Salina Vortex Inc. Recommend conformity assessment solutions for product CE marking and ATEX Certification. Prepare documentation, conduct product hazard analysis and testing to meet ATEX and Machinery Directive requirements to comply with CE declaration for European market.
- 2004-05 Summer** Offered professional development courses to Tony's Pizza employees in the areas of reliability centered maintenance, condition based monitoring (RCM), Vibration Analysis, Basic Process Controls and Measurement and PLC programming (AB Contrologix Platform).
- 2003 Summer** Consultant for Philips Lighting Company. Work involved study the workflow process, understand implementation of six sigma and lean techniques in process improvement, and identify opportunities for student design projects.
- 2002 Summer** Designed and developed three new prototype energy efficient recessed down lights for new construction, retrofit, and light commercial buildings.
- 2001 Summer** Designed and developed energy efficient recessed downlight fixtures. Submitted proposal and prototypes to Pacific Northwest National Laboratory energy procurement competition.  
Developed business plan, marketing plan and cashflow for Maya Inc. Presented business plan to potential investors (Junction City, Lincoln, Abeline, KTEC, SBIR).  
Submitted research and development proposal to Kansas Technology Enterprise Corporation (KTEC) and was awarded \$100,000 to develop energy efficient recessed downlights.
- 2000 (May-Aug)** Consultant for KASA Industrial Controls Inc., Salina, KS. Work involved PLC programming, equipment testing, startup testing of part of General Motors Truck and Bus assembly production conveyor systems in Flint, MI.  
Provided product sales translation from English to Russian for **AMERICAN MAPLAN** Co., McPherson, KS.
- 1994 – 1995** Planning Committee member of National Institute of Standards and Technology (NIST) sponsored Puerto Rico Manufacturing Extension Program. Conducted studies on existing manufacturing extension programs in US. Conducted surveys on needs of Puerto Rico manufacturing industries and various technical service providers.
- 1991 (Jan-Aug)** Consultant, Daytona Aircraft Construction Inc. Works included FEA and Computer aided design techniques to verify structural loads on wing main spar, conversion of technical drawings to computer, database development of engineering drawings, aircraft tail section and load analysis and technical documentation preparation for aircraft certification process.
- 1981 – 1985** Senior Engineer, Tajoura Nuclear Research Center, Tripoli, Libya. Responsible for planning, scheduling, and supervision of preventive, corrective, and overhaul maintenance of plant equipment of engineering and radio-active waste management systems.  
Duties included systems engineering design, modification, equipment and piping testing and receiving, plant operation, and employee training. Committee member for survey on " Application of Radio-isotopes in Industry. "

## RESEARCH

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### RESEARCH EXPERIENCE

- 1999 (Sept-Dec)** Worked with Vircon Consulting Company on a NASA Kennedy Space Center funded project titled "Engineering Study for the Analysis of Design Characteristics and Development of a Control System Implementation Plan for the Mars Simulation Chamber."
- 1998 Summer** Taught a course in Smart Structures and Mechatronics at University of Missouri-Rolla. NSF funded project for Under Graduate Research Experience in Smart Structures and Mechatronics.
- 1997 Summer** Taught a course in Smart Structures and Mechatronics at University of Missouri-Rolla. NSF funded project for Under Graduate Research Experience in Smart Structures and Mechatronics.
- 1996 Summer Faculty Fellowship**  
Oak Ridge National Laboratories, Oak Ridge, TN. Worked in Ultra-Precision Manufacturing Division. Work Included trouble shooting of operation of piezoelectric fast tool servo of a Diamond Turning Machine. Conducted studies on casting of epoxies to develop optical flat surfaces.
- 1995 – 1996** Co-Investigator of Sandia National Laboratories funded research in the area of Intelligent Materials and Structures. Work involved the use of piezoelectric materials as sensors and actuators in vibration control and damage detection of structures.
- 1991 –1992** Consultant and team member of Tecton Products funded research in the area of pultrusion process. Works included use of finite element analysis (FEA) software in door panel design and improvement of pultrusion process by optimizing the process variables.
- 1986 - 1991 Graduate Research Assistant**  
Assistant Systems Analyst, Robert Perkins Engineering Computer Center, NDSU. Responsible for CDC NOS/VE Cyber 180 system operation and maintenance, training new personnel, writing system documentation, customizing application software and software development using FORTRAN, Pascal, GKS (Graphics Kernal System) and GPL (Graphics Programming Language). Proficient with IBM 3090/VM/CMS, DEC VAX 11/780/unix, IBM PC Windows and DOS operating systems.
- Assisted in CAD/CAM course development, teaching, and senior design projects. Developed database and programs to generate Bill of Materials for Jergen's 2D and Carr Lane's 3D fixture components on different CAD systems.
- Developed and implemented computer software for kinematic, dynamic analysis and graphic simulation of mechanisms. The software is used to analyze design performance, simulate field tests, and study the relationship of forces with motion and the effect of friction in mechanism joints of various mechanisms.
- Developed Automated Mapping/Facility Management procedures for USWEST. Primary work involved in conversion of maps to computer and database development. Implemented data transfer between different CAD systems using IGES translator. Implemented Computer-Aided Power Plant design using heat balance and cooling tower programs to improve power plant performance by optimizing turbine cycle configuration and cooling tower design.

## SERVICE

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### INSTITUTIONAL SERVICE

- 2007- 2009** Member of College Fall 07 Kick-off Committee  
**2005 - Present** Member of College Committee on Planning  
**2004 – 2006** Member of College Assessment Review Committee  
**2004 – Present** Member of University General Grievance Board  
**2001 – 2004** Member of Faculty Senate.  
**2001 – 2002** Faculty senate Executive Committee member.  
**2001 – 2002** Chair of College Advising and Planning Council (CAPC).  
**2003 – Present** Faculty Advisor of Society of Manufacturing Engineers Student Club.  
**1998 – Present** Member of Tilford Group. ( Diversity Committee )  
**1997 – 2003** Co-Faculty Advisor of Society of Manufacturing Engineers Student Club.  
**2001** Chair of Engineering Technology Department Mission and Goals Committee.  
**2001** Member of Kansas State University Educational Goals Committee.  
**1999 – 2001** Member of College Committee on Planning (CCOP).  
  
**1999 – 2001** Member of Honor Council.  
  
**1999 – 2001** Member of Multi Cultural Committee.  
  
**1997 – 2000** Member of Course and Curriculum Committee.

### PROFESSIONAL SERVICE

- 2009** Invited to participate in EPA funded grant proposal "Community Action for a Renewed Environment." Environmental Sustainability for the Salina Community.  
  
**2009** Invited panelist for Department of Defense and ASEE to review graduate fellowship applications in Washington DC.  
**2009** Invited grant proposal reviewer for Louisiana Board of Regents. Reviewed proposal on "Damage Accumulation Modeling and Durability Uncertainty Analysis of Aging Materials."  
**2008- Present** Chair Student Relations Committee, Society of Manufacturing Engineers  
**2008-09** Kansas State University Sustainability Taskforce member  
**1999 – Present** TAC of ABET Evaluator for Mechanical Engineering Technology Programs.  
**2005 – Present** ASEE Midwest Section Campus Representatives Coordinator.  
**2006 - Present** Butler Community College Advisory Board Member for CADD and Manufacturing Programs.  
**2003 - Present** Wichita Area Technical College advisory Board Member for MET ptogram.  
**2005 - 2006** Chair of Mechanical Engineering Technology Department Heads Committee.  
**2004 - 2005** Vice-Chair of Mechanical Engineering Technology Department Heads Committee.  
**2003 – 2004** Secretary of Mechanical Engineering Technology Department Heads Committee.  
**2002 – Present** Secretary of SME Mid-Kansas Chapter 230.  
**2003 – Present** American Society of Engineering Education Campus Representative.  
**2002 – Present** American Society of Mechanical Engineers Region VII Representative to METDHC.  
**2001** Reviewed proposals for the Science Centers Program of U.S. Department for United States Civilian Research and Development Foundation.  
**2001** Reviewed and evaluated course materials for tenure process of Ms. Julia Morse, faculty at University of Nebraska, Omaha campus.  
**1999 – 2000** Chair of Society of Manufacturing Engineers Mid-Kansas Chapter 230.  
**1995 – 1996** Faculty Advisor of American Society of Mechanical Engineers Student Chapter.  
**1995** Organized **Manufacturing Engineering Forum 95** at the University of Turabo, Gurabo, Puerto Rico.

## **PROFESSIONAL DEVELOPMENT**

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### **Teaching Workshops**

- 2000** Plains Academy Class of 2000 Kick-off Workshop, Nov1-2, KSU-S, Salina, KS.  
**2000** Effective Teaching by Dr. Richard Felder, Nov. 5-6, at Wichita State University, Wichita, KS.  
**1999** Peer Consulting by Dr. Daniel Bernstein, University of Nebraska, Lincoln, June 3<sup>rd</sup>. Manhattan, KS.  
**1998** Reflection: Linking service and Learning by Janet Eyler Dec. 14, KSU Manhattan, KS.

### **Technology Workshops**

- 2001** Microsoft Faculty Orientation Workshop, Seattle, WA.  
**1997** Course Technology's Forum at Johnson County Community College, Kansas City.

### **Grant Writing Workshops**

- 1999** Pre-Award and Post awards by Grants Administration of KSU, Manhattan.  
**1999** SME Education Foundation Grant Writing, Oct. 1-2, Branson, MO.  
**1998** FIPSE and International grants development workshop at KSU Manhattan.  
**1998** NSF Regional Grants Conference Oct. 14-16 at The University of Kansas, Lawrence, KS.

### **Miscellaneous**

- 2003** Root-cause and mistake proofing workshop by Honeywell, Lake Ozark, MO.  
**2003** Assessment Symposium, Rose-Hulman Institute of Technology, Terre Haute, IN.  
**2002** ABET TC2K Evaluator Training, ASEE National Conference, Montreal, Canada.  
**2002** Trained Tony's workforce on "Basic Instrumentation and Measurement."  
**2002** Labview Basics II, Minneapolis, MN.  
**2001** Think and Do Studio Developers Course, Ann Arbor, MI.  
**2001** ABET Evaluator Training, ASEE National Conference, Charlotte, NC.  
**2001** Entrepreneurship Workshop, ASEE National Conference, Charlotte, NC.  
**2001** International Light Fair, May, Las Vegas, NV.  
**2000** Presented CNC lathe Processes multi-media module at Plains Academy workshop, KSU Manhattan, KS.  
**1998** Diversity and Multiculturalism Tillford Conference at Wichita State University.  
**1998** Sokkia GPS and Wireless Products Training at Sokkia Corporation Kansas City.  
**1998** Industrial Machine Tool Trade Show, February, Wichita, KS.  
**1998** Basic Adams Training Program workshop by Mechanical Dynamics, May 18-22, Ann Arbor, MI.  
**1998** Rapid Prototyping Conference (Product Exhibition only), May 20, Detroit, MI.  
**1998** Supercom 98, June 6, Atlanta, Georgia.  
**1998** Attended Society of Manufacturing Engineers Region 10 Annual Chapter Officers Conference, Sep. 25-26, St Louis, MO.  
**1998** Attended "Diversity and Multiculturalism" Tillford Conference at Washburn University, Oct. 25, Topeka, KS.  
**1998** Wonderware Workshop, Logic Controls, Nov., Wichita, KS.  
**1997** Course in controls area summer 1997, University of Missouri-Rolla.  
**1997** The Science and Art of practical Stress/Strain Measurement workshop by Measurements Group July 31, St. Louis, MO  
**1997** Tooling and Process Optimization by Robert Hatch, sponsored by Society of Plastics Engineers, Wichita Chapter, Oct. 15.  
**1995** Active Structures, SPIE workshop, Feb. San Diego, CA.  
**1994** V/V+ Programming for Adept Robots, April' San Jose, CA.  
**1994** ERC Basic Programming (Motoman Robot), Jan. Dayton, OH.  
**1993** Introduction to Machine Vision, May Fargo, ND.  
**1991** PC Based Measurements and Controls, Nov. Fargo, ND.

## SCHOLARSHIP

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### PUBLICATIONS/Presentations

1. Dandu, R. First Year Experience in managing NSF S-STEM Grant at K-State at Salina. ASEE Annual Conference and Exposition, June 14-17, 2009, Austin, TX.
2. Dandu, R. Bringing Awareness on Sustainable Green Manufacturing to Students. Presentation only. 2009 Sustainability Conference, Kansas State University, Jan. 2009, Manhattan, KS.
3. Dandu, R and DeLeon, J. Kansas State University's ELITE Scholarship Program: Enhancing Lives through Engineering and Technology. Presentation only. 2008 ASEE Annual Conference and Exposition, June 22-25, 2008, Pittsburgh, PA
4. Barnard, K., Stephens, G., and Dandu, R. Earth Day Teach-In: A Model for Industry, Community, and Education Collaboration. 2007 ASEE Midwest Section Regional Conference, Sept. 19-21, 2007, Wichita, KS.
5. Dandu, R., Hassan, M. and DeLeon, J. Enhancing Applied Engineering Experience: In Freshman Mechanical Engineering Technology Course. ASEE Annual Conference and Exposition, June 19-23, 2007, Honolulu, HI.
6. DeLeon, J. and Dandu, R. Easing the Transition from the Community College to an Engineering Technology Bachelor's Degree Program. IJME/INTERTECH Conference, Oct. 19-21, 2006, Kean University, NJ.
7. Dandu, R. and Spaulding, G. Reliability Centered Maintenance Workshop. Half day workshop at International Conference on Agile Manufacturing, ICAM-2006, July 19-20, 2006, Norfolk, Virginia.
8. Dandu, R. Design of Energy Efficient Recessed Compact Fluorescent (CFL) Downlight Fixture. ASEE Annual Conference and Exposition, June 18-21 2006, Chicago, IL.
9. Dandu, R. and Hassan, M. Keeping Students Alive In Freshman Mechanical Engineering Technology. International Mechanical Engineering Education Conference, Mar 31- April 4, 2006, Beijing, China. (Poster Presentation).
10. Dandu, R. and Harding, T. Leading the Assessment Process at Kansas State University. ABET/TEI Workshop, February 16-18, 2006, Washington D.C. (Poster Presentation)
11. Pat Ackerman, Kathy Brockway, Raju Dandu, Pedro Leite, and Jimmy Splichal. Tapping in to the Power of "The Community Classroom". ASEE Midwest Section Conference, Sept. 31 – Oct. 2, 2004 Pittsburg, KS.
12. George Gray (Wichita Area Technical College) and Raju Dandu. A Process Model for Establishing Engineering Technology Programs at Technical Colleges. ASEE Midwest Section Conference, Sept. 31 – Oct. 2, 2004 Pittsburg, KS.
13. Hassan, M. A., and Dandu R. A Low-Tech Approach to Physical Visualization of Concepts. ASEE Midwest Section Conference, October 10 - 12, 2003, Rolla, MO.
14. Dandu, R., Oliphant, D., and Delker David. Reviving Technical Currency of Engineering Technology Faculty. ASEE 2001 National Conference, Albuquerque, NM, June 2001.
15. Dandu, R. and Gold, L. Introducing Mechanical Engineering Technology Students to Photoelasticity. ASEE 35<sup>th</sup> Midwest Section Conference April 5-7, 2000, Omaha, NE. Recommended for publication in ASEE Journal.
16. Dandu, R., Kissick, B., Cramton, B., and Mortensen, N. Psychodynamics of Engineering Technology and Aviation Students at KSU-Salina. ASEE 35<sup>th</sup> Midwest Section Conference\_ April 5-7, 2000, Omaha, NE. **Won Best Paper Award** in Engineering Technology Division and recommended for publication in ASEE Journal.

17. Dandu, R., Simmonds, G., and Funk, G. Developing Animated CNC lathe operations using Flash. CIM/HE Conference June 4-6, 2000, Dayton, OH.
18. Hassan, M. A., and Dandu R. The Octal Environment:--Optimized Computer-aided Teaching And Learning. ASEE New England Section Annual Conference, April 28-29, 2000, Lowell, MA.
19. Dandu, R., Hassan, M. A., and Gold, L. Real World Experience through Reverse Engineering in Mechanical Engineering Technology. American Society for Mechanical Engineers 2000 International Mechanical Engineers Congress & Exposition (IMECE) Orlando, Florida, November 5-10, 2000.
20. Dandu, Raju, Vittal S. Rao, Koval Leslie, and Kern Frank, "Introducing students and faculty of undergraduate programs to research through funded programs." Thirty-Third ASEE Midwest Section Conference, April 8-10, 1998, Salina, Kansas.
21. Dandu, Raju and Plageman R., "Finite Element Stress and Deflection analysis of door panels incorporating LVL, Ponderosa, and FRP Pultrusion Materials in the Stile." Internal Report for Tecton Inc. 1992.
22. Dandu, R., Mehta, S., and Tennyson S., "Modification and Evaluation of Sequential Quadratic Programming Method for Engineering Design Optimization." Presented at 1991 ASEE Annual Conference in New Orleans, LA, June 1991 and also published in the Journal of "Computers in Education".
23. Dandu, R., Mehta, S., and Tennyson S., "Optimization of a Farm Seeding and Fertilizing Spring-Loaded Four-bar Mechanism." Presented at Society of Automotive Engineers (SAE) International Off-Highway and Power Plant Congress in Milwaukee, WI, September 1991.

**FUNDED PROJECTS**

- 2006** PI for NSF funded \$500,000 S-STEM ELITE Scholarship grant.
- 2006-07** Co-PI for NSF \$2,500,000 STEP grant.
- 2004** Kansas Industrial Training Grant for \$180, 000 submitted by Tony's Inc, Schwan Food Manufacturing. Team member and offered training courses.
- 2003** Philips Lighting Company Summer Project, \$5,448.
- 2001** KTEC granted \$100,000 for Maya Inc business development. PI for the proposal.
- 2000** Manufacturing Engineering Education Foundation Grant, SME Education Foundation. Principal Investigator, \$90,000 for software.
- 1999** Manufacturing Engineering Education Foundation Grant, SME Education Foundation. Principal Investigator, \$58,000 for software.
- 1998** Manufacturing Engineering Education Foundation Grant, SME Education Foundation. Principal Investigator, \$12,500 for software
- 1997** Manufacturing Engineering Education Foundation Grant, SME Education Foundation. Co-Investigator, \$427,000 for software.
- 1995** Sandia National Laboratories Grant, Co-investigator, \$100,000.
- 1995** Manufacturing Engineering Education Foundation Grant, SME Education Foundation. Principal Investigator, \$213,000 for capital equipment and software.
- 1995** NIST Manufacturing Extension Program Planning Grant, Co-investigator, \$200,000.
- 1994** Manufacturing Engineering Education Foundation Grant, SME Education Foundation. Principal Investigator, \$255,000 for capital equipment and software, curriculum development and student development.
- 1991** Tecton Inc. grant, Co-Investigator, \$100,000.

**APPLIED RESEARCH PROPOSALS**

- 2001** KTEC Applied Research Matching Grant for Maya Inc for energy efficient recessed downlight product development.
- 2000** Submitted the following proposals:  
Saeed Khan, Raju Dandu and Jung Oh to NSF on " The Integration of a Complete Wireless XYZ Chip Sensor/Actuator Buried in a Lossy Electromagnetic Environment."
- Saeed Khan, Leonard Gold and Raju Dandu to ADMRC on " Design of highly reliable ice thickness gauge for commercial aircraft using a rectangular Microstrip Patch Antenna (RMPA)" and " Verification of the technology for anti/De-ice Systems."
- 1999** Raju Dandu and Leonard Gold to ADMRC on " New Generation CNC Languages."  
Submitted two proposals with Dr. Leonard Gold for industry sponsored research by ADMRC ( Aircraft Design and Manufacturing Research Center). Pre-Proposal on "New Generation CNC Software" was successful, and submitted final proposal. The other pre-proposal "Computer Modeling of Aluminum Casting Processes " was not successful.
- 1999** Team member of " Engineering Study for the Analysis of Design Characteristics and Development of a Control System Implementation Plan for the Mars Simulation Chamber."
- 1998** Submitted two proposals for industry sponsored research by ADMRC ( Aircraft Design and Manufacturing Research Center). Pre-Proposal on "Cost integration into CAD systems for Designing Low Cost Standardized Parts and Assemblies Requiring Fewer Manufacturing Hours" was successful, but not the final proposal. The other pre-proposal " Bonding repair procedures for aircraft structures" was not successful.

## STUDY ABROAD

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<b>1994 – 1995</b>	Spanish for foreign faculty, Universidad del Turabo, Gurabo, Puerto Rico.
<b>1982 – 1983</b>	Arabic Language, Evening School, Tripoli, Libya.
<b>1981 – 1985</b>	Practiced conversational Russian with Russian workers at Tajura Nuclear Research Center, Tripoli, Libya.
<b>1976 – 1981</b>	Mechanical Engineering, Slovak Technical University, Bratislava, Slovakia. Took Language courses in Russian and German.
<b>1975 – 1976</b>	Slovak Language, International Institute for Languages, Herlany, Slovakia.

## FOREIGN LANGUAGES AND INTERNATIONAL TRAVEL

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Fluent in spoken and written **English, Slovak, Czech, Russian, and Telugu.**

Understand **Spanish, Arabic and Hindi.**

Familiar with **German and Italian.**

**1993 – 1996** Lived in Humacao, Puerto Rico (Caribbean).

**1985 (Mar-July)** Lived in Rome, Italy (Europe).

**1981 – 1985** Lived in Tripoli, Libya (North Africa).

**1975 - 1981** Lived in Slovakia (Eastern Europe).

### Computer Experience

#### Software

Solid Works	AUTOCAD	ADAMS
Smart CAM	Lab-volt CNCs	ANSYS
Edgecam	Omnitrend (RCM software)	V++ for Adept Robot
Motoman Robot	Matlab & Simulink	Labview
Rslogix	Panel View Builder	

### Laboratory Development

Computer-Integrated-Manufacturing Laboratory, University of Turabo.

Manufacturing Processes Laboratory, University of Turabo.

Manufacturing and Metrology Laboratory, North Dakota State University.

## HONORS and AWARDS

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- 2009** ASEE Outstanding Zone Campus Representative Award for Zone III
- 2009** Professor of the Year, Outstanding Faculty advisor Nominee
- 2008** Macarthur Family Faculty Fellowship Award nominee.
- 2007** Macarthur Family Faculty Fellowship Award nominee.
- 2005** Professor of the Year nominee.
- 2002** Pacific Northwest National Laboratories of Department of Energy operated by Battelle, selected two recessed downlight products of Maya Inc in second phase competition for long term testing.
- 2002** **Received patent for “Fluorescent Lamp for Recessed Ceiling Mounting.”**
- 2001** Pacific Northwest National Laboratories of Department of Energy operated by Battelle, selected only the Maya Inc Recessed downlight product in first phase competition for long term testing.
- 1999** Received **1999 Marchbanks Teaching Excellence Award** at College of Technology and Aviation, Kansas State University-Salina.
- 1986** Received Tuition waiver and Research Assistantship towards doctoral education.
- 1975** Full scholarship award recipient for higher education in Slovakia.

## MEMBERSHIPS

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American Society of Engineering Education (ASEE)  
American Society of Mechanical Engineers (ASME)  
Society of Manufacturing Engineers (SME)  
Society of Automotive Engineers (SAE)