PART 1: Background

EDUCATION

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| --- | --- | --- |
| **DEGREE** | **INSTITUTION** | **DATE** |
| Ph.D. Mechanical Engineering | University of Texas, Austin | May 2005 |
| M.S. Applied Mathematics | Southern Illinois University, Carbondale | June 1999 |
| B.S. Mechanical Engineering | California State University, Sacramento | Dec. 1996 |
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ACADEMIC APPOINTMENTS (full-time, tenure track)

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| --- | --- | --- |
| **APPOINTMENT** | **INSTITUTION/COLLEGE/DEPARTMENT** | **DATES** |
| Associate Professor | Department of Mechanical Engineering California State University, Sacramento | Aug. 2012 - current |
| Assistant Professor | Department of Mechanical Engineering California State University, Sacramento | Aug. 2006 – Jul 2012 |
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TEACHING EXPERIENCE (full or part-time, non-tenure track)

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| **POSITION** | **INSTITUTION** | **DATES** |
| Full-time Instructor | Texas Valley College  | Aug 2001 – May 2003 |
| Part-time Instructor | Jenkins Institute of Technology | Aug. 2002 – Dec. 2002 |
| Part-time | Wilmington Community College | (Summers) 2000 – 2001 |
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INDUSTRY EXPERIENCE

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| --- | --- | --- |
| **POSITION, FULL OR PART TIME** | **COMPANY/ORGANIZATION** | **DATES** |
| Technical Consultant | Howell Connector Systems | Continuous |
| Structural Analyst, full-time | Kanical Systems Inc. | 1997 – 1999 |
| Manufacturing Quality Control Manager | Southway Elevators | Summers 95, 96, 97 |
| Technician | Catalina Engine Systems | May 1996 - |
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PROFESSIONAL REGISTRATION, LICENSURE, AND CERTIFICATION

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| --- | --- | --- | --- |
| **LICENSE/CERTIFICATION** | **ISSUING ORGANIZATION** | **DATE ISSUED** | **NUMBER** |
| Professional Engineer  | CA Board of Professional Engineers, Land Surveyors, and Geologists | July 2016 | #123456 |
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PART 2: Teaching and Advising

RECORD of INSTRUCTION

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| --- | --- | --- |
| **COURSE NAME (grad or undergrad)** | **INSTITUTION** | **# TIMES TAUGHT** |
| ME 12: Mechanics of Materials (undergrad) | California State University, Sacramento | 12 |
| ME 34: Thermodynamics (undergrad) | California State University, Sacramento | 3 |
| ME 56: Senior Design (undergrad) | California State University, Sacramento | 14 |
| ENG 104: Advanced Mechanical Design | California State University, Sacramento | 2 |
| ESYS 78: Engineering Systems (com college) | Wilmington Community College | 6 |
| EGR 90: System Design (com college) | Jenkins Institute of Technology | 3 |
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COURSES or LABORATORY ASSIGNMENTS (DEVELOPED or INTRODUCED)

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| --- | --- |
| **RUBRIC & COURSE NAME or LAB TITLE** | **BRIEF COMMENT** |
| 1 | ENG 104: Advanced Mechanical Design | Introduced a new graduate course. Taught six times (2008 – 2013). Typically 20 – 30 students. Refer to supporting materials for additional information. |
| 2 | Lab: Optical Methods for Deflection | Developed further an undergraduate lab. Manual developed. One of five labs. Taught six times (20014 – 2016). Refer to supporting materials for additional information. |
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INDEPENDENT STUDENT / SPECIAL PROJECT COURSES

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| **RUBRIC & COURSE NAME or LAB TITLE** | **BRIEF COMMENT** |
| 1 | ME 51: Independent Study, Spring 2013 | Guided three-student team. Designed, fabricated and tested a prototype device to detect motion. |
| 2 | ME 51: Independent Study, Spring 2014 | Spring 2013. Three-student team. Designed, fabricated and tested a prototype device to assist elderly person with cleaning. |
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M.S. THESES/PROJECTS ADVISED

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| --- | --- | --- | --- |
| **Student Name** | **Title** | **Role** | **Date Defended** |
| 1 | Shiela Anderson | Influence of Moisture Conditions on Structural Integrity of Orthopedic Device | First Reader | In progress |
| 2 | Antonio Rodriguez | Determination of Endurance Limit for Aircraft Landing Gear as a Function of Fillet Radii  | Second Reader | 2008 |
| 2 | David Samuelson  | Quality Control Analysis of RF Signal Generator | First Reader | 2006 |
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PART 3: Scholarship

PEER-REVIEWED PUBLICATIONS (journal, conference proceedings, books, book chapters)

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| --- | --- |
| **#** | **Publication** (Note: For journals, include only those for which a publishing fee is not required. Reverse chronological order.) |
| 1 | **Lastname, F**., Wilson, D., Kruger, A., Improved Methodology for Evaluation of Crack Formation in 6063-T6 Aluminum Using Optical Technique , Journal Stress Analysis, 2, pp. 123 – 138, Sept. 2015. |
| 3 | **Lastname, F**., Wilson, D., Kruger, A., Improved Methodology for Evaluation of Crack Formation in 6063-T6 Aluminum Using Optical Technique , Journal Stress Analysis, 2, pp. 123 – 138, Aug. 2015.  |
| 2 | Anderson, E., Wong, J., **Lastname, F**., New Approach for Mentoring Students During Tiny House Project Activity, pp 57 – 62, Northwestern Region Engineering Education Conference, Seattle, WA, Jul.2013. |
| 4 | Bartow, W., Wilson, I., **Lastname, F**., On the Development of Improved Teaching Strategies for Upper Level Undergraduate Courses, pp. 55 – 69, Northwestern Region Engineering Education Conference, Denver, CO, Jan. 2013. |
| 5 | Anderson, E., Wong, J., **Lastname, F.**, New Approach for Mentoring Students During Tiny House Project Activity, pp. 236 – 242, Northwestern Region Engineering Education Conference, Seattle, WA, Oct. 2012. |
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INVITED PROFESSIONAL PRESENTATIONS (with no publication)

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| **#** | **Presentation (**Reverse chronological order.) |
| 1 | SMUD, Update on State of Technology for Energy Management Systems for Commercial Buildings, Contact: Ms. Wilma Jefferson, December 12, 2016. |
| 2 | Westington Technologies, Progress Report on Development of Curriculum, Contact: Dr. Fred Aitkin, , July 25, 2015.  |
| 3 | Johnson Controls Technical Seminars, Keynote Speaker, State of Computer Technologies, Contact: Mary Wilson, July 13, 2014. |
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PROFESSIONAL REPORTS, SOFTWARE, PATENTS

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| --- | --- |
| **#** | **Presentation (**Reverse chronological order.) |
| 1 | Central Valley Committee on Energy, Task Force Report on Economic Impact of Technology, Contact: Mr. Ching Su, September 10, 2008.  |
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VISITING SCHOLARS OR POST-DOC STAFF HOSTED

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| --- | --- | --- |
| **Visitor Name** | **Activity** | **Dates** |
| 1 | Margarita Moya, Ph.D. | Developed new methodology for engaging students during lab work. Conference paper in preparation.  | 2008 - current |
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PROPOSALS FOR SUBMITTED EXTERNAL FUNDING (via Office of Research Affairs)

|  |  |  |
| --- | --- | --- |
| **#** | **Amount**  | **Description** |
| 1 | $450,700  | NSF Career Award: New Methodology for Engaging Students during Senior Design Experience, NSF ID#: 364557, Date: August 2012, Firstname Lastname (PI). AwardedCSUS Fund Number: 47534. Awarded. |
| 2 | $4,000 | Electric Devices Inc.: Further development of Data Collection Capacity, Firstname Lastname (co-PI), Mary Jane (co-PI). Date: August 2010. CSUS Fund Number: 69384 . Awarded. |
| 3 | $8,000 | Electric Devices Inc.: Further development of Data Collection Capacity, Firstname Lastname (co-PI), Mary Jane (co-PI), Date: August 2009. Not Awarded. |

PROPOSALS SUBMITTED FOR INTERNAL FUNDING (via Office of Research Affairs)

|  |  |  |
| --- | --- | --- |
| **#** | **Amount**  | **Description** |
| 1 | $450,700  | NSF Career Award: New Methodology for Engaging Students during Senior Design Experience, NSF ID#: 364557, Date: August 2012, Firstname Lastname (PI). Awarded.  |
| 2 | $4,000 | Electric Devices Inc.: Further development of Data Collection Capacity, Firstname Lastname (co-PI), Mary Jane (co-PI). Date: August 2012. Not awarded.  |
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PART 4: Service

UNIVERSITY SERVICE

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| --- | --- | --- |
| **#** | **Committees, Task forces, Special Assignments, Participation, etc.** | **Dates** |
| 1 | Student Conduct Committee, University Senate, Academic Year:  | 2014-2015 |
| 2 | Family Day Organizing Team, Admission Office | Summer 2015 |
| 3 | Chair of ABC Committee, The Wellness Center, Academic Year | 2014 – 2016 |
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COLLEGE & DEPARTMENT SERVICE

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| --- | --- | --- |
| **#** | **Committees, Task forces, Special Assignments, Participation, etc.** | **Dates** |
| 1 | Student Conduct Committee, University Senate, Academic Year:  | 2014-2015 |
| 2 | Family Day Organizing Team, Admission Office | Summer 2015 |
| 3 | Chair of ABC Committee, The Wellness Center, Academic Year | 2014 – 2016 |
|  |  |  |

COMMUNITY AND PROFESSIONAL SERVICE

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| --- | --- | --- |
| **#** | Boards, Manuscript Reviews, Technical Session Chairs, etc  | **Dates** |
| 1 | Board of Advisors for ABC Consortium | 2014-2015 |
| 2 | Boy Scout Troop #458, Special Consultant for STEM Activities,  | Summer 2015 |
| 3 | Scholarship Review Committee for Intel | 2014 – 2016 |
| 4 | Manuscript Reviews for ABC Journal (12 reviews) | Academic Year 2014-2015 |
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HONORS AND AWARDS

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| --- | --- | --- |
| **#** | For teaching, scholarship, service, other  | **Date** |
| 1 | Distinguished Fellow, Institute of Transportation Engineers (ITE) | 2015 |
| 2 | Distinguished Service Award, Institute of Transportation Engineers (ITE) Northern California Section.  | 2014 |
| 3 | Administration & Business Affairs (ABA) Vice President’s Distinguished Service Award, Sacramento State.  | 2013 |
| 4 | Outstanding Scholarly and Creative Activity Award, College of Engineering & Computer Science, Sacramento State.  | 2012 |

PROFESSIONAL AFFILIATIONS

|  |  |  |
| --- | --- | --- |
| **#** | For teaching, scholarship, service, other  | **Dates** |
| 1 | American Society of Civil Engineers (ASCE) | 1999 - present |
| 2 | Institute of Transportation Engineers (ITE) |  |
| 3 | Transportation research Board (TRB) |  |
| 4 | American Society of Engineering Education (ASEE) |  |
|  |  |  |

PROFESSIONAL DEVELOPMENT ACTIVITIES

|  |  |  |
| --- | --- | --- |
| **#** | For teaching, scholarship, service, other  | **Dates** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
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PART 5: Summary of Qualifications

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| Maximum of one page, single spaced, 10 font |
| For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Next you may want to discuss other aspects of your career. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something. For example, explain more about how special a certain publication was. For example, talk about your long term goals. Add anything you want to complete your story. For example, make reference to something listed above. For example, explain why you did not do something or get recognized for something  |