

S. Kori Rahman

Master of Aerospace Engineering with experience in fluid measurement techniques, laboratory and factory testing, and engineering design. Seeking a challenging position to use multidisciplinary engineering skills for design and testing of aerospace propulsion systems. U.S. citizen previously holding a Department of Defense classified confidential security clearance.

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Experience

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| 8/13 - 9/15 | Project Engineer | Cameron International, Houston, TX |
| | <ul style="list-style-type: none">Engineered multimillion-USD oil and gas sampling systems specifically tailored to the needs of national and international customers, following industry standards (ASNI B31.3, ISO 3171, ASTM D 4177, and API 8.2), and local codes.Developed Engineering Drawings, Bills of Material, P&IDs, and Wiring Diagrams for client approval.Directed all component selection, procurement, fabrication, and assembly from order receipt to shipment.Conducted Factory Acceptance Testing including testing of hydraulic/pneumatic power systems, Coriolis meters, densitometers, water-cut monitors, electrical power and communication, and review of certification and manufacturing record documentation.Used Lean Six Sigma techniques to reduce cost and increase engineering efficiency, ensuring projects shipped on time and under budget. | |
| 6/08 - 5/09 | Graduate Research Assistant | Georgia Institute of Technology, Atlanta, GA |
| | <ul style="list-style-type: none">Performed experimental species concentration and temperature measurement via Raman scattering in combustion applications.Built the Raman scattering apparatus used in the laboratory.Supported lab research by performing and assisting in experimental measurement for low emissions combustors.Research was pursuant to the completion of a Special Problems Report in partial fulfillment of a Master's Degree in Aerospace Engineering. | |
| 1/08 - 12/08 | Graduate Teaching Assistant | Georgia Institute of Technology, Atlanta, GA |
| | <ul style="list-style-type: none">Taught Experimental Fluid Dynamics Labs covering force, pressure and temperature measurements in a subsonic wind tunnel, turbine engine, shock tube, supersonic blowdown tunnel, and unsteady combustion in a Rijke tube.Responsible for laboratory setup, instructing students on techniques, and grading reports.Promoted to Lead TA and taught lecture when needed. | |
| 4/06 - 12/06 | Research Assistant | Georgia Institute of Technology, Atlanta, GA |
| | <ul style="list-style-type: none">Undergraduate research of Stretch Effects on Premixed Syngas Combustion at STP conditions using computational simulations with the software CHEMKIN.Studied the extinction strain rate of premixed syngas (H₂/CH₄ mixtures) at various equivalence ratios. | |

Education

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| Master of Science, Aerospace Engineering | Georgia Institute of Technology | 12/2011 |
| Concentrations: Combustion, Propulsion, High Temp Gas Dynamics, High Speed Aerodynamics, Wind Turbines | | |
| Bachelor of Science, Aerospace Engineering (High Honor) | Georgia Institute of Technology | 5/2007 |
| Concentrations: Aerodynamics, Propulsion, Fixed Wing Design | | |
| Associate of Science (Honors) | Middle Georgia College | 5/2005 |
| Designations: Physics, Mathematics, Computer Science, Forestry | | |

Skills

Measurement Techniques

- Laser diagnostics: Laser Doppler Velocimetry, Raman Scattering.
- Flow visualization: Schlieren, particle image velocimetry, laser induced fluorescence.
- Direct measurements: Hot-Wire anemometry, pitot tubes, Strain gauges, capacitive and piezoelectric pressure transducers, thermocouples.

Project Design and Management

- Drafting: AutoCAD, Solid Edge, Inventor.
- Experienced in material and component procurement, and the SAP system.
- Microsoft Office: Project, Excel, Word, Power Point, Access.
- Excellent written communication and teamwork skills.

Electrical Systems

- Analog and digital instrumentation wiring and data acquisition.
- NEC and ATEX electrical design for Hazardous Areas.
- IP, MODBUS, HART, and I²C protocols.
- PCB and component wiring assembly.
- Microcontroller implementation in custom control systems.

Computational

- Software: Design Flow Solutions, I-DEAS, LabView, CHEMKIN, Gridgen, GasEQ, Large Eddy Simulation codes, vortex lattice codes, potential flow codes.
- Programming: MATLAB, Java, C++, Python, HTML, PHP, XML, Visual Basic, FORTRAN, C#

Coursework

Graduate Aerodynamics and Propulsion

High-Speed Aerodynamics, [Kinetics and Thermodynamics of Gases](#), Unstable Aerodynamics, Gas Dynamics, Rocket Propulsion, [Combustion](#), Turbine Engine Aerothermodynamics, [Wind Turbine Design](#).

Undergraduate Aerodynamics and Propulsion

Low-Speed Aerodynamics, High-Speed Aerodynamics, Thermodynamics and Compressible Flow, Jet and Rocket Propulsion, [Aeroelasticity](#).

Undergraduate Design and Performance

Aerospace Vehicle Performance, Flight Dynamics, Fixed Wing Aerospace Senior Design I & II. [Winning Team for Fixed Wing Senior Design Competition, Submitted to AIAA National Competition.](#)

Organizations

Membership

- American Institute of Aeronautics and Astronautics (AIAA), Reston, Virginia
- Sigma Gamma Tau, National Aerospace Engineering Honors Society, Notre Dame, Indiana
- Phi Theta Kappa International Honors Society, Jackson, Mississippi
- The Planetary Society, Pasadena, California

Awards

- The National Dean's List (2003 - 2007)
- The United States Achievement Academy Collegiate All-American Scholar Award(2003 - 2007)