Lemuel R. Rios Santiago

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EDUCATION:

University of Puerto Rico, Mayagüez Campus   **Expected Graduation: June 2025**
Bachelor of Science in Industrial Engineering / Curricular Sequence in International Relations
GPA: 3.18/4.0

RELEVANT COURSES

- Algorithms & Computer Programming
- Probability and Statistics for Engineers
- Engineering Economic Analysis
- Linear Algebra & Differential Equations
- Microeconomics
- Principles of Psychology
- Principles of Political Sciences
- International Relations
- Advanced English I & II
- Basic Spanish I & II
- General Biology I & II
- General Chemistry I & II

TECHNICAL/NON-TECHNICAL SKILLS:

- Microsoft Word, Excel, PowerPoint
- VBA, Minitab, Smartsheet
- Python
- AutoCAD, DraftSight
- Windows 7, Windows 10
- Bilingual in English and Spanish

PROJECTS/RESEARCH:

EMPRESS: Exploration Multipurpose Rover for Expanding Surface Science   **HID Division Leader**   **August 2019 – June 2020**
- Human factors considered were temperature, vibroacoustic, and workstation/item positioning.
- Seats include a handhold to facilitate ingress and egress motions; thus, seatbelt design consists of durable Thermal Micrometeoroid Garment and applies a hook-bar mechanism that lessens spacesuit related risks while optimizing performance.
- Analog display uses simplified symbols, legible colors, and provides information on radiation exposure, images from the Mastcam-Z system, and human vitals, which connect to the display via the xEMU bio-monitor.
- First place in the South Pole Multipurpose Rover theme and first place overall at the NASA RASC-AL competition.
- Presented research at AIAA's 2020 ASCEND Conference.

EXPERIENCE:

Amgen Manufacturing Limited (AML 6)   **Business Performance Co-Op**   **February 2022 – November 2022**
- Understand and improve processes along AML.
- Analyze deviation events, and lead/support root cause analysis.
- Identify opportunities to reduce waste within the different stages of the process.
- Work closely with manufacturing process owner to complete corrective and preventive action items on time.

Administrative Board at UPR-Mayaguez   **Student Representative**   **July 2021 – January 2022**
- Advise the rector in the exercise of his functions.
- Prepare the projects and development plans of this institutional unit, consider the budget project for this institutional unit, submitted by the rector and grant, at the rector's proposal, licenses, academic ranks , the permanence, and promotions of the teaching and technical staff of institutional unit, in accordance with the General Regulations of the University.

NASA Kennedy Space Center: Systems Development   **Engineering Intern**   **August 2020 – December 2020**
- Developed VBA tool for document term search, which aims to help users search for words through single & multiple capability within single & multiple document files through folder & subfolder looping process.
- Allows (VBA tool) the user to do such search from an optimized & simple command button (form control) or from an alternative GUI (Graphical User Interface) through List Box (User Form) for visual ergonomic methodologies.
- The developed code is designed to have the capability to be modified accessibly to meet the needs of users that want to search words in different file formats, such as PowerPoint (.ppt) & Excel (.xlsx).

VOLUNTEER EXPERIENCE:

Professional & Academic Services by Lemuel Rios   **Speaker**   **February 2020 – Present**
- Exposing organizations & individuals to professional & academic opportunities, LinkedIn, and other personal development tools.
- Have collaborated with more than 25 organizations through online & in person workshops.

MEDLIFE Movement   **Chapter Leader**   **August 2019 – May 2020**
- Recognized as Member of the Month (August-September 2019) for continuous collaboration throughout chapter activities & community service.
- Through mobile clinics volunteered 40 hours of basic health services through triage to 504 patients, gave educational health workshops, and learned more about community needs and made plans for long-term development projects in Tena, Ecuador.

LEADERSHIP/ORGANIZATIONS:

"Pathways to Success: RUMbos para el Éxito" (PÓRTICO)   **Mentor**   **September 2021 – May 2022**
- Provide support and guidance for freshmen so they can make a successful transition to college.
- Mentoring 9 undergraduate industrial engineering freshmen students during the 2021-2022 academic year.

ACTIVITIES/AWARDS:

- PR-LSAMP   **Scholar**   **August 2022 – Present**
- Hispanic Scholarship Fund (HSF)   **Scholar**   **June 2021 – June 2022**