Taylor Rivera

Principal Systems Engineer

Berlin, Germany

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Experienced systems engineer with a strong background in automation, aerospace systems, and technical leadership. Proven track record in delivering complex projects, mentoring teams, and driving innovation in engineering processes.

Experience

Lead Engineer, Omni Labs, Berlin, Germany | 2022–Present

- Designed automation workflows for LaTeX pipelines, reducing processing time by 60% and improving consistency across 50+ projects.
- Led 8-engineer team delivering template suites, increasing client satisfaction by 40%.
- Developed Python scripts for data processing (10,000+ points/project) and visualization.
- Collaborated on requirements for aerospace documentation delivery.

Systems Engineer, Aurora Dynamics, Munich, Germany | 2019–2022

- Built simulation models for control systems with 95% accuracy.
- Authored technical reports and documentation, reducing onboarding by 30%.
- Conducted integration testing, resolving 25+ critical issues.
- Mentored junior engineers on best practices.

Projects

Automated LaTeX Pipeline 🔗

Developed automated LaTeX system with GitLab CI/CD integration, reducing build times from 2 hours to 15 minutes and eliminating manual errors.

Education

- M.S. Engineering, Omni University, Berlin, Germany, 2022
  Thesis: "Advanced Automation Techniques in LaTeX Document Processing"
  GPA: 3.8/4.0
- B.S. Applied Physics, Polaris College, Munich, Germany, 2019
  Minor: Computer Science, GPA: 3.7/4.0

Skills

- **Technical:** Python, Lua, LaTeX, MATLAB, C++, Git, Docker, Jenkins, Simulink, AutoCAD, Pandas, NumPy, Statistical Modeling
- **Soft:** Leadership, Technical Communication, Problem-Solving, Cross-Functional Collaboration
- **Domain:** Systems Engineering, Automation, Aerospace Systems, Quality Assurance

Certifications, Awards, and Memberships

- **Certifications:** CSM (2023), PMP (2021), AWS Solutions Architect Associate (2020), Six Sigma Green Belt (2019)
- **Awards:** Employee of the Year (Omni Labs, 2023), Innovation Award (Aurora Dynamics, 2021), Outstanding Contribution (Engineering Society, 2020), Dean's List (2018–2022)
- **Memberships:** IEEE (since 2019), ASME (since 2018), VDI (since 2022)

Languages

- English (Native), German (Professional), French (Intermediate)

References

Available upon request.

Additional Information

- **Professional Development:** Continuous learning in emerging technologies, including AI/ML applications in engineering.
- **Volunteer Work:** Technical mentor for university engineering programs, STEM outreach coordinator.
- **Publications:** Co-author of 3 technical papers on automation systems and control theory.
- **Patents:** Contributor to 2 filed patents in aerospace control systems.