

Luciano Bonadona
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SKILLS SUMMARY

- Software: SolidWorks, MATLAB, Excel
 - Technical: Technical modeling, data collection, engineering analytic applications, numerical models
 - Programming: C++, VHDL, Python
 - Certifications: First Aid, CPR & AED (American Red Cross), CSWA, CSWA-S
 - Languages: Fluent in English, Spanish, and French
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EDUCATION

**Bachelor of Science in Biomedical
Engineering, Minor in Computer Science –
University of Arkansas, Fayetteville, AR**

Expected: May 2026

GPA: 3.4

Relevant Coursework: Computer programming, Electrical circuits, Linear Algebra, Biostatistics, Signals and Systems.

ENGINEERING-RELATED EXPERIENCE

**Capstone Project — Go Baby Go, University of
Arkansas**

September 2025 – Present

- Redesigned 3 ride-on toy vehicles to support mobility and social participation for children
- Collaborated with healthcare professionals to gather performance and usability data to guide design improvements and ensure safety standards.
- Implement electrical/mechanical adaptations to ensure comfort and safety.

**Entrepreneurial-Driven Knee Replacement
Project, Fayetteville, AR**

January 2023 – May 2023

- Designed a prototype rehabilitation solution using SolidWorks CAD and biomedical engineering principles.
 - Conducted 10+ structured tests to evaluate durability and usability.
 - Improved prototype reliability by an estimated 15-20% after design revisions
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WORK EXPERIENCE

**Lifeguard — University of Arkansas,
Fayetteville, AR**

May 2022 – Present

- Monitor facility equipment; ensure regulatory safety standards for a facility serving 100+ daily users.
- Respond to emergencies; maintain precise incident documentation.
- Collaborate on preventive equipment checks and maintenance schedules.

**Mechanic's Assistant — Volksur, La Paz,
Bolivia**

November 2019 – April 2020

- Conduct diagnostic testing and repairs on automotive electrical/mechanical systems.
- Maintain customer communication and service reports.

**Assistant Manager — Risky Business
Restaurant, La Paz, Bolivia**

July 2018 – August 2019

- Manage daily operations, equipment functionality, and inventory.
 - Develop Excel automations for reporting (~10% efficiency increase).
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LEADERSHIP EXPERIENCE

**Engineering World Health — University of
Arkansas**

Fall 2024 – Present

- Collaborate on engineering-based health solutions; prototype testing and data analysis under safety protocols.
- Camp Counselor — Camp Frontier, Tampa, FL**
- Summer 2021
- Supervise 100+ campers; ensure equipment safety through routine inspections and preventive procedures.
