

Robert A. Billings

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Education

Pennsylvania State University | State College, PA
Bachelor of Science in Software Engineering, GPA 3.36

June 2021 – Present
Expected Graduation: December 2025

Universidad Carlos III de Madrid | Madrid, Spain
GPA 4.00

November 2022 – June 2023

Skills

Programming: Java, Python, C++, C#, JavaScript/Node.JS, SQL, R, MATLAB

Hardware: Raspberry Pi/Pico, Rockwell PLCs, Siemens HMIs, IO-Link, Fanuc Robots

Software: Microsoft Products, SolidWorks, AutoCAD, RSLogix, Visual Studio, GitHub

Professional Organizations: National Society of Hispanic Engineers

Communication: Design proposals, technical reports, instruction manuals, presentations (large and small audiences)

Languages: English (Native), Spanish (Conversational)

Projects

Pennsylvania State University

Nittany Motorsports (Formula E) - Electrical Sub-system

- Modified the CAN Bus system to improve performance, along with the addition of electrical static discharge protection

Experience

General Motors | Grand Rapids, Michigan

June 2023 – Present

Controls Engineer Intern

- Updated the electrical drawings and created new sequence logic modernizing automation of a legacy machine
- Created a plan and setup the monitoring of cooling machinery, allowing for preemptive maintenance, and saving millions of dollars yearly and creating a retrofit solution for other applications
- Assisted in daily maintenance, ranging from swapping Servo drives to troubleshooting faults
- Created documentation to assist in the troubleshooting of issues on legacy machines, along with taking backups of any HMIs and PLCs
- Created a preventative loss system that saved over \$120,000 annually

Bluelink Wireless (AT&T) | State College, Pennsylvania

August 2022 – December 2022

Sales Associate

- Consistently produced 200% of new line acquisition quotas and recognized as top salesperson in the region three out of five months
- Assisted customers in saving hundreds of dollars, creating a positive customer experience
- Utilized multiple sales platforms to keep track of customers and create/follow up with leads, creating new business
- Served as a gateway for customer acquisition/retention, along with solving issues for existing customers

United Postal Service (UPS) | Palatine, Illinois

June 2022 – August 2022

Package Handler

- Consistently met goals of loading over 2000 large boxes daily, surpassing expectations and allowing consistent product flow
- Adjusted roles as needed, functioning in multiple teams, allowing fluid teamwork and consistent growth

Pennsylvania State University | State College, Pennsylvania

November 2021 – April 2022

Student Manager

- Oversaw the schedules of over 100+ students on a daily basis, utilizing different software and working with unique goals and challenges to create a functioning work environment
- Facilitated new events that helped to facilitate team growth and a clear path of progression for employees looking to grow in their roles

Relevant Coursework

General Chemistry

Physics: Mechanics & Electricity and Magnetism

Calculus with Analytic Geometry I, II, and III

Programming and Computation I & II

Microsoft Excel

Object Orientated Programming with Web-Based Applications

Activities

Eagle Scout | North Barrington, IL

AlgoPSU | State College, PA

Penn State Engineering Orientation Network | State College, PA

Lake Forest Academy Coding Club | Lake Forest, IL

