

Ryan Koes

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EDUCATION AND HONORS

Bucknell University, Lewisburg, PA	Expected May 2026
Bachelor of Science in Computer Science and Engineering <i>Minor in Mathematics</i>	GPA: 3.8/4.0
<ul style="list-style-type: none">Reed-Garman Award Fund for Engineering EntrepreneurshipDeans List	May 2024
Lowell Catholic High School, Lowell, MA	All Semesters
High School Diploma <i>Summa Cum Laude</i>	May 2022
	GPA: 3.9/4.0

TECHNICAL SKILLS

Programming Languages
<ul style="list-style-type: none">Python, C, Java, JavaScript, R, C++, C, RISC-V, Bash, Rust, HTML
Frameworks, Libraries, and Tools
<ul style="list-style-type: none">Numpy, PyQt, matplotlib, pytorch, pandas, CSS, React, Node.js, Tensorflow, Scikit-Learn, Jupyter Notebook, RStudio, Git, GitHub, GitLab, JUnit5, Postman
Other Relevant Skills
<ul style="list-style-type: none">Linux, VSCode, Qt Creator, IntelliJ, PyCharm, Unity, Linux, Windows, MacOS, HTTP, Agile Methods, Pair Programming, Test-Driven Development

EXPERIENCE

Cyber Research Intern <i>Peraton Labs, Bedford, NH</i>	June 2025 - August 2025
<ul style="list-style-type: none">Researched and developed advanced signal processing methods for underwater acoustic communication systems.Collaborated with fellow interns and engineers to work on complex problems and integrate our approaches with advanced hardware systems.Explored various deep learning techniques, including CNNs, RNNs, and LSTMs, while getting hands-on experience with data collection.	
Machine Learning-Enhanced Electronic Tongue <i>Bucknell University</i>	May 2024 - present
<ul style="list-style-type: none">Conducted interdisciplinary research on electronic tongue technology for unbiased characterization of coffee.Applied custom filtering and fitting methods, along with off-the-shelf ML methods to deliver descriptive analytical data on aqueous solutions.Presented at AIChE national conference (2024), AIChE regional conference (2025), and AIChE national conference (2025).	
Interdisciplinary Data Science Center Fellow <i>Dominguez Center for Data Science Bucknell University</i>	Sep 2024 - May 2025
<ul style="list-style-type: none">Collaborated on data science projects, utilizing Python and advanced ML/Statistical packages.Supported Center activities by managing social media, organizing events, and promoting student engagement.	
Application Development Compatible With Tidbyt API <i>Bucknell University</i>	May 2023 - Dec 2024
<ul style="list-style-type: none">Developed several private applications using Starlark compatible with Tidbyt devices.Gained experience with HTTP methods, Starlark programming language, data visualization methods, and API integration.	
Teaching Assistant <i>Bucknell University CSCI 306</i>	Aug 2024 - Dec 2024
<ul style="list-style-type: none">Assisted students with labs on fundamental computer systems concepts showcasing hardware and software integration.	
Teaching Assistant <i>Bucknell University ENGR 100</i>	Aug 2023 - Dec 2023
<ul style="list-style-type: none">Supervised students in interdisciplinary projects with 3D printing, laser cutting, and Arduino programming/components skills.	
Retail Sales Associate <i>Old Navy</i>	May 2023 - Aug 2023
<ul style="list-style-type: none">Acquired soft skills such as communication, time management, and customer service.	

ACTIVITIES

Google Developer Student Club <i>Bucknell University Computer Science Dept.</i>	Mar 2024 - Dec 2024
<ul style="list-style-type: none">Engage in regular events, activities, and projects. Typical events include workshops, collaborative projects, and hackathons.	
Chemical Engineering Car Competition ElectroMechanical Team Lead <i>Bucknell University Chemical Engineering Dept.</i>	Aug 2023 - Present
<ul style="list-style-type: none">Designed car body and internal electrical components controlling stopping and moving mechanisms.	
Nifty Fund Project Lead <i>Bucknell University Makerspaces</i>	Jan 2025 - Present
<ul style="list-style-type: none">Manage a project team to develop an automatic pour-over coffee brewer.	
RoboLab <i>Bucknell University Computer Science Dept.</i>	Jan 2023 - Aug 2024
<ul style="list-style-type: none">Contribute to weekly discussion-based topics of HRI and HCI. Presented on robotics in film and media history.	
Club Baseball <i>Bucknell University</i>	Aug 2022 - Present
<ul style="list-style-type: none">Assist team in games and weekly practices.	
Eagle Scout <i>Boy Scouts of America</i>	Aug 2022