

Adam Seidman

<https://seidman-ad.am/>

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Recent computer engineering graduate experienced in PCB design, real-world engineering application, research, and microcontrollers.

Skills

Languages - Java, C, C++, C#, VueJS, JavaScript, HTML/CSS, SCSS, VHDL, Verilog, Python, Arduino, Assembly
Software – KiCad, Visual Studio/VS Code, OrCad, Git/SVN, SolidWorks, IntelliJ, Eclipse, MS Office
Other – PCB/Circuit Design, Soldering/Wiring, Machining, Organization, Self-Management
Interests - Home Automation, Chess, Racing, Theater, Puzzles

Education

Bachelor of Computer Engineering, Rochester Institute of Technology

Graduated Cum Laude with Honors
Immersion: Public Policy

Coursework

Multiple Processor Systems *	Computer Organization/Architecture	Digital IC Design *
Senior Design 1&2	Biorobotics/Cybernetics *	Digital Electronics
Digital System Design 1&2	Applied Programming in C	Discrete Math/Linear Algebra
Real Time and Embedded Systems *	Digital Signal Processing	Computer Science 1&2
Differential Equations	Data & Communication Networks *	Statics/Strengths of Materials

* = Masters Course

Work Experience

Junior Software Developer – EMA Design Automation, Rochester, NY Summer 2021
Developed automated unit/integration tests in C# for UltraLibrarian.com microservices.

Junior Software Developer – EMA Design Automation, Rochester, NY June 2019-January 2020
Worked in a small team to develop and test a VueJS-based file management solution for electrical engineering projects.

Computer Engineering Research – Rochester Institute of Technology, Rochester, NY May 2018-August 2018
Worked in several small teams with the RIT computer engineering department to analyze cyber attack data, construct useful applications for embedded systems, and create social media security tests.

Light and Sound Board Manager – NB Township Board of Education, North Brunswick, NJ January 2015-January 2018
Managed all technical aspects for leased school space/events, including opening and closing schools for clients.

Ropes Course Counselor – Eagles Landing Day Camp, North Brunswick, NJ Summer 2017/2018
Responsible for training, logistics, and maintaining safety equipment. Ran several classes for kids to use the ropes course

Projects

Magnetorheological (MR) Shock Control System – Designed, prototyped, and implemented a control system/wire harness with a custom PCB to magnetically power a semi-active suspension system for the RIT Baja off-road vehicle. The MR system is the first and currently only of its kind in the Baja collegiate series.

Stackable Data Acquisition System (DAQ) – Created a new primary DAQ for use on RIT Baja's off-road vehicle. The system is raspberry pi-based, has an assortment of modular shields to connect to on-car sensors, and provides live, wireless feedback.

Eagle Scout Project – Created a media center comprised of a small library with homemade bookshelves and seven computers/equipment at the North Brunswick township senior center.

Power Distribution Box – Designed and built a distribution panel that has three different generator inputs of varying sizes and provides several different 120v and 240v outputs. Each set of outputs were switched to set which generator was its source. At any given time, the box is connected to several grinders, welders, power tools, etc.

Personal Website – Developed custom website using VueJS and GitHub-Pages. See more at <https://seidman-ad.am/projects>

Activities

RIT Baja SAE, Suspension Controls Engineer, R&D, & Treasurer	August 2017 – June 2022
RIT Honors Program, Member	March 2018 – June 2022
FIRST Robotics, Captain/Driver	September 2013 – July 2017
Boy Scouts, Senior Patrol Leader/Eagle Scout	September 2005 – July 2017