

# Yoav Binyamin

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<https://yoavbinyamin.github.io>

## EDUCATION

### Texas A&M University

*Bachelor of Science in Electrical Engineering*

*Bachelor of Science in Mathematics*

*College of Engineering, College of Arts and Sciences*

**College Station, Texas**

*May 2028*

*Current GPA: 4.00/4.00*

### Keller High School

*Mathematics Pathway*

**Keller, Texas**

*May 2024*

*Cumulative GPA: 3.97/4.00*

Honors: Electrical Engineering Honors, National Merit Finalist

## LEADERSHIP & INVOLVEMENT

### SOMTECH University Rover Challenge

*Power Distribution Lead / Electrical Team Colead*

**College Station, Texas**

*August 2024 – Current*

- Professional schematic and PCB design with Altium, Altium Library, and Saturn PCB Toolkit, with focus on a fuse-protected filtered backplane design from a 36V battery to lines directly to motors, and lines converted down to 12V and 5V for communication modules, TEENSY, JETSON, ramen spectroscopy modules.
- Selected 100+ components ranging from power modules and switching chips to connectors and passive components up to correct values and specification.
- Mentored 2+ students on readable schematic and PCB design.
- Maintained project workflow and kept note of teammates' tasks using Altium's task-assigning features.

## SKILLS, ACTIVITIES & INTERESTS

**Technical Skills:** C++, Python, C (all introductory), PCB software (Altium, Altium Library, Saturn PCB Toolkit, KiCad), PLDs, microcontrollers, Excel, design briefs and design process, professional dimensioned sketches, power tools, motors, sensors, wiring, breadboarding, soldering, circuit logic, ICs.

**Certifications & Training:** Altium Education: PCB Basic Design Course, OnShape Fundamentals: CAD.

**Relevant Courses:** Program Design and Concepts (C++), Mathematical Probability, Intro to Digital Systems Design, Partial Differential Equations.

**Awards:** Dean's Honor Roll, Highest Ranking Graduate, AP Scholar with Distinction, Letter K (of highest grade) in AP Calculus BC, AP Physics C: E&M, AP Physics II, AP Physics I, AP Statistics, Multivariable Calculus, Linear Algebra, AP World History.

**Interests:** IKEA and LEGO building, solving math problems, video gaming, long walks.

**Languages:** Hebrew (regularly speaks, reads, and writes), English; immigrated from Israel at age 10.

**Citizenships:** United States, United Kingdom, Israel.