

# Zeyn Schweyk

(805) 708-4943 • zschweyk@gmail.com • 3510 North Charles Street, AMR II #2207, Baltimore MD  
21218 • www.linkedin.com/in/zeyn-schweyk/

## EDUCATION

### Johns Hopkins University and Peabody Institute of Music

BS

Baltimore, MD

Expected May 2026

- Mechanical Engineering on Aerospace Track, minoring in Entrepreneurship & Management and Piano at Peabody

### Santa Barbara City College

Associates Degrees in Math & Science and Liberal Arts

Santa Barbara, CA

May 2022

- Dual Enrollment Student throughout high school. HS GPA : 5.0 / 5.0, College GPA: 4.0 / 4.0
- Completed over 60 credits in math, science, CS, history, and music

## WORK EXPERIENCE

### Radio Frequency (RF) Software Intern

Toyon Research Corporation

Goleta, CA

June 2022 - August 2022

- Created & deployed software for antenna research & testing for defense w/ Visual Studio, .NET Framework, Windows Forms, C++, C#, Git & GitLab
- Built libraries for detailed control of various servo motors working in conjunction w/ one another
- Presented project to employees in industry for 40+ years and received positive feedback

### Software Contractor

Santa Barbara Control Systems, Chemtrol Division

Santa Barbara, CA

December 2020 - May 2021

- Designed and created company time-clock system used daily by employees and management w/ Python & SQL
- Implemented multiple versions of desktop applications compatible w/ Windows, Mac, & Linux OS w/ English & Spanish translations, automatic database backups & emails, regular employee reports linked to payroll, vacation & sick accrual, tasks by employee & department, and more
- Pitched and sold system to CEO

### Mechatronics Programmer for Science Museums across CA

Dos Pueblos Engineering Academy

Goleta, CA

August 2021 - June 2022

- Designed and created software for various exhibits w/ Arduinos, Raspberry Pis, sensors, & motors during as HS senior
- Implemented and deployed closed-loop feedback control (PID) systems, web servers w/ Apache, database applications, client-server models, Python libraries to PyPI, and worked closely with synthesizers
- Designed minor exhibit components with SolidWorks and machined them w/ lathes, mills, & laser cutters
- View more detailed description of projects here: <https://2022mechatronicszeynschweyk.weebly.com/projects.html>

### SBPianoBoys Classical Piano Duo

SBPianoBoys (www.sbpianoboys.com)

California

January 2014 - Present

- Perform solo, four-hands, & two-piano repertoire regularly at various gigs and venues, teach music to all ages, compose and arrange works
- Competed in and won the Santa Barbara Concerto Competition, state level composition competitions, and various music festivals across CA
- Studied at The Music Academy of the West, The Schwab Academy of Music, Westmont Academy for Young Artists, and Santa Barbara Music and Arts Conservatory

## ACHIEVEMENTS

- '22 Student Elected Representative for Mechanical engineering Undergraduate Student Council (MUSC) at JHU
- '22 JHU Clark Scholar Member & Recipient
- '22 Santa Maria Philharmonic Showcase Winner
- '21 AP Scholar w/ Distinction
- '21 FIRST Robotics Tidal Tumble Semifinalist
- '18 Mock Trial Team County Winner as Pre-trial attorney
- '15 Jr. Black Belt in Kung Fu

## **SPECIALIZED SKILLS**

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- Programming languages: Python, C++, C#, Java, MATLAB, SQL, HTML, CSS, JavaScript
- Design: SOLIDWORKS, OnShape, & basic CAM software
- Manufacturing: Lathe, Mill, Band Saw, Laser Cutters, 3D Printing, Soldering
- Business: Business Operation & Marketing, Event Planning & Coordination, Public & Motivation Speaking, Bookkeeping, Microsoft Office / Google Suite

## **LEADERSHIP & INVOLVEMENT**

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- Riviera Robotics & FIRSt Robotics
- Santa Barbara Architectural Foundation Design Program
- Spreadsheet Club, Founder & President
- American Institute of Aeronautics & Astronautics