

Zeyn Schweyk

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Piano Duo: [Instagram](#), [Facebook](#), [YouTube](#), [LinkedIn](#), [Music Resume](#)

Personal: [Projects](#), [GitHub](#), [LinkedIn](#)

EDUCATION

Johns Hopkins University and Peabody Institute of Music

Electrical Engineering and Computer Science Double Major, w/ minors in Entrepreneurship and Music

Baltimore, MD

August 2022 – May 2026 (Expected)

Santa Barbara City College

Associate degrees in Math & Science and Liberal Arts – GPA: 4.0 / 4.0

Santa Barbara, CA

August 2018 – May 2022

- Dual Enrollment Student throughout high school, completing over 60 credits in math, science, CS, history, and music

Engineering Academy at Dos Pueblos High School

5.0/5.0 GPA

Baltimore, MD

August 2018 – May 2022

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 with one another
- Presented final project to a company-wide meeting with employees in industry for 40+ years

Software Contractor

Santa Barbara Control Systems, Chemtrol Division

Santa Barbara, CA

December 2020 - May 2021

- Designed and created a time-clock system, suitable for any mid-sized company, used daily by employees and management w/ Python & SQL
- Implemented multiple versions of desktop applications compatible w/ Windows, Mac, & Linux. Dealt with Facial Recognition for automatic clocking in/out, automatic emails/alerts/database backups, regular employee reports linked to payroll, wage calculations, vacation & sick accrual & taken, tasks by employee & department, random motivational quotes, English & Spanish translations, and so much more
- Pitched and sold system to CEO
- [GitHub Repository](#)

Mechatronics Programmer for Science Museums across CA

Dos Pueblos Engineering Academy

Goleta, CA

August 2021 - June 2022

- Designed and created software for various exhibits to be displayed across museums in California, like the Exploratorium in San Francisco, as a HS Senior
- Implemented and deployed closed-loop feedback control (PID) systems, Apache web servers on Raspberry Pis, CRUD applications, client-server models, Python libraries to PyPI, and used Arduinos, Raspberry Pis, various sensors and motors, and input devices
- Designed minor exhibit components with SOLIDWORKS and machined them w/ lathes, mills, & laser cutters, as needed
- View my [Project Portfolio](#) for a more detailed description of these projects

SBPianoBoys (aka The Piano Boys)

Classical Piano Duo w/ my brother

California

January 2014 - Present

- Perform solo, four-hands, & two-piano repertoire regularly at various venues, teach music to all ages, and compose and arrange works, all with my brother as a duo
- Competed in and won countless performance competitions, state level composition competitions, and various music festivals across CA, individually and as a duo
- Studied Chamber Music at The Music Academy of the West under faculty from Juilliard, Curtis, etc., University of California Santa Barbara (UCSB), Santa Barbara City College (SBCC), The Schwab Academy of Music, Westmont Academy for Young Artists, and Santa Barbara Music and Arts Conservatory
- Learning under Ching-Yi Lin at The Peabody Institute of Music

ACHIEVEMENTS

- '22 JHU Clark Scholar Member & Recipient
- '22 Student Elected Representative for Mechanical Engineering Undergraduate Student Council (MUSC) at JHU
- '22 Santa Maria Philharmonic Showcase Winner
- '21 AP Scholar w/ Distinction
- '21 FIRST Robotics Tidal Tumble Semifinalist
- '21 Santa Barbara Double Piano Concerto Competition Winner
- '20 Music Teachers' Association of California (MTAC) Composers Today Symposium State Level Finalist
- '18 Jr. High Chess Tournament District Winner
- '18 Mock Trial Team County Winner as Pre-trial attorney
- '15 Jr. Black Belt in Kung Fu

SPECIALIZED SKILLS

- **Programming languages:** C, C++, C#, Python, Java, MATLAB, SQL, HTML, CSS
- **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
- **Other:** WordPress, Logisim, gdb, Valgrind

LEADERSHIP & INVOLVEMENT

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

HOBBIES

- Improvising & Composing, Brainstorming Business Ideas, Coding, Tennis & Table Tennis, Running