

# John F. Tim Jr

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## OBJECTIVE

Innovative engineering student with a solid foundation in theoretical and practical applications of mechanical, electrical, biomedical, and computer systems. Possess strong analytical and problem-solving skills, paired with hands-on experience from academic and professional projects. Focused on applying technical knowledge to real-world engineering problems, demonstrating adaptability, teamwork, and leadership abilities. Strive for continuous learning and improvement to make significant contributions within dynamic work settings.

## EXPERIENCE

### **Founder | Rejects Sports | October 2023 – Current | Central Pennsylvania**

Founded a local collegiate-level ice hockey team, competing against local collegiate and adult-level teams. Overseeing all aspects of operations, including recruitment, training, scheduling, product development, marketing, sales, webpage design, and customer service. Currently creating an LLC to branch off into sports equipment design and sports instruction.

### **Ice Hockey Official | USA Hockey | September 2014 – Current**

Progressive certification to Level 4 USA Hockey Official, officiating USA Hockey, USPHL, EHL, AAU, and ACHA leagues throughout the East Coast.

### **Professional Golf Staff | Burke lake Golf Center | April 2022- August 2023 | Fairfax, VA**

Managed SNAG Instruction, Golf Academy Instructor, private instructor, tournament set up, and golf shop work. Developed and implemented customized golf lessons for beginner, intermediate and advanced players. Sales in the golf shop and fitting for different types of golf equipment.

### **Nurse Aide | Bradford Ecumenical Home | November 2020-May 2021 | Bradford, PA**

Provided care and aide of long-term care facility residents, as directed.

## EDUCATION

### **B.S. Biomedical Engineering | Elizabethtown College | Elizabethtown, PA**

**(Expected in May 2025)**

Coursework towards completion of Bachelor of Science in Engineering concentrating in Biomedical. Relevant Courses: Circuit Analysis, Mechanics of Materials, Signals and Systems, Differential Equations, Statics, Dynamics, Bio-Electrical Signals, and Biomechanics.

### **B.S. Biomedical Engineering | George Mason University | 2021 – 2023 | Fairfax, VA**

Coursework completed towards Bachelor of Science in Engineering concentrating in Biomedical. Relevant Courses: Calculus 1-3, Physics 1-2, General Chemistry 1-2, Human Biology, Computer Science (Programming Languages Python, Matlab, C, C++)

## **SKILLS**

- Leadership Qualities
- Golf Course Management Software
- Accountability
- Time Management
- Staff Oversight
- Situational Awareness
- Communicates information to others
- Problem Solving
- First Aid Training
- Public Speaking
- CAD (AutoCAD, Inventor, Fusion360)
- Fluent in programming languages such as C, C++, Python, Matlab, Java, HTML

## **ACTIVITIES/ACCOMPLISHMENTS**

- Founder and President of Elizabethtown Rejects Ice Hockey Team
- Palmyra Black Knights 18u AA Ice Hockey Coach
- Shadow for Hanger Clinic Prosthetics - East Petersburg
- Kiwanis Key Club
- Bradford High School Golf Team – District (Individual and Team) and Regional (Team) Qualifier, Coaches Award Recipient
- Bradford Youth Hockey Club Coach and Player
- Shadow for Dr. Luis Gonzalez MD, General Surgeon BRMC
- Special Olympics Volunteer

## **CERTIFICATION**

- USGTF Golf Instructor
- Certified Nurse Aide - 2021-2023, Commonwealth of Pennsylvania, Department of Health
- CPR/AED Certification - American Red Cross
- USA Hockey Official – Level 4 Certification
- USA Hockey Coach – Level 2 Certification

## Projects

### Occupational Therapy Board | Group Project

*Engineering Project at Elizabethtown College*

*Tools: TinkerCAD, Arduino IDE, Arduino Uno R3*

- Developed an interactive board aimed at improving motor skills for a child with cerebral palsy, integrating both physical and electronic elements.
- My part in this project was to program and implement the board's electronic components using Arduino, to create a gamified system using lights in the form of a stoplight, based off the child's interest in racing, to turn one LED on when the user completes one of the tasks.

### Webpage Design | Solo Project

*Engineering Project for Ice Hockey Team*

*Tools: HTML, Product Design*

- Worked independently through the entire project cycle, from initial concept and design to coding, testing, and deployment.
- Modified a Shopify website, using HTML, with a focus on clean, responsive design to ensure accessibility on both desktop and mobile platforms.
- Integrated team schedules, player profiles, and updates into a streamlined interface that enhanced user experience.

### Book Page Turner (In Progress) | Team Project

*Engineering Project for Masonic Village Nursing Unit*

*Tools: TinkerCAD, Arduino IDE, Arduino*

- Working with a team for my senior capstone project to create a book page-turning device controlled by Arduino stepper motors, and a servo motor.
- Overseeing coding development and contributing to the electrical design for automation.

### Ice Hockey Stick (In Progress) | Solo Project

*Engineering Project*

*Tools: CAD Software*

- Designing a custom ice hockey stick using CAD software, focusing on material optimization and ergonomic design.
- Using NCAA Athletes to give inputs during the design phase, and will be testing it after first prototype is fully built.