

Kale R. Sinclair

Tallahassee, FL | kale.sinclair7@gmail.com | 904-318-2445

Education

Florida State University, Tallahassee, FL

Aug 2024 - May 2027

- Bachelor of Science in Biomedical Engineering

Northwest Florida State College, Niceville, FL

May 2023 - May 2024

- Associates of Arts in General Studies

Engineering & Project Experience

Team Lead - Haz-Watch Fracturing Chemical Dosimeter | *FSU BMES Project*

Aug 2025 - Present

- Designed wearable dosimeter detects harmful chemicals emitted near hydraulic fracturing sites.
- Conducted chemical compatibility research, conceptualized absorbent layer design, and developed a cost analysis for production.
- Produced detailed sketches and early prototypes, initiated planning for future funding and development.
- Collaborated with a two-person team with goals to enhance PPE and environmental monitoring practices.

Medtronic/BMES Student Design Competition

Aug 2025 - Present

- Entered early design phases; unable to continue due to lack of BMES funding. Demonstrated initiative by self-starting a related independent project.

Leadership Experience

Haz-Watch Personal Dosimeter

2025 - Present

- Organized team meetings, set research direction, and led planning for future funding.

Beine Award

2020-2021

- Awarded for excellence in character, leadership, academics, and athletics.

Salvation Army | Christmas Day Family Feast

2012-2017

- Served meals and distributed clothing and gifts to individuals and families in need each Christmas.

Sport Event Volunteer

2014-2022

- Supported local wrestling events with setup, concessions, and cleanup.

Wrestling Team Captain

2020-2021

- Led team to first-ever semi-final appearance at state competition; helped defeat higher-ranked teams.

Experience

PT Solutions Physical Therapy | **Therapy Tech.** | *Fort Walton Beach, FL*

Feb 2023 – Present

- Innovate/rework excel patient charge sheets to increase efficiency, while complying with HIPPA.
- Aiding therapist specialty tasks, from lifting patients to operating/retrieving medical devices for patient care.
- Communication with families during/after emergencies while responding with the best aid I can provide for my team.

Jackson Hewitt | **Professional Tax Preparer** | *Tallahassee, FL*

Dec 2024 – Present

- Utilized advanced tax software for accurate filing and client education.
- Resolved IRS issues and expanded clientele through outreach and effective communication.

Skills

Software:

- Python
- C++
- MATLAB
- Java
- HTML
- MS Excel

Equipment:

- Sara Steady
- Hoyer Lift
- Soldering
- Car
- ~Oil/Filters/Breaks/Tires
- Home Repair
- PC/Laptops

Training:

- Basic Life Support Valid-2027
- Process Safety Ethics 1-Credit [PDHs]
- Professional Tax Preparer Certificate w/PTIN

Memberships:

- USA Boxing License
- Gainz Boxing Club
- Biomedical Engineering Society
- Generational Relief in Prosthetics
- National Society of Black Engineers.