

# MOHAMMED SEBBAGH

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## PROFESSIONAL SUMMARY

Dedicated physics educator with expertise in AP and general physics instruction, curriculum development and student-centered learning. Proven track record developing critical thinking skills through interactive laboratory experiences and inquiry-based learning. Skilled in differentiated instruction, assessment design, and collaborative professional development to enhance student achievement.

## EDUCATION

### Master of Arts, Secondary Science Education (Physics)

Western Governors University, Salt Lake City, UT Anticipated July 2025

### Bachelor of Science, Applied Physics – Optical Science and Engineering

New Jersey Institute of Technology, Newark, NJ December 2017

## CERTIFICATION/LICENSURE

New Jersey Standard Teaching Certificate - Physics Pending 2025

## TEACHING EXPERIENCE

### Union City Board of Education, Union City, NJ | Physics Teacher 2023 - Present

- Developed questioning, modeling, explaining, data analysis, and argumentation skills through interactive labs
- Facilitated student-led scientific inquiries fostering critical thinking and exploration
- Collaborated with families to ensure access to appropriate learning resources
- Cultivated supportive environment encouraging student engagement in scientific discourse

### North Star Academy Charter School, Newark, NJ | Teacher (AP Physics and General Physics) 2018 - 2022

- Instructed and mentored 80+ students across multiple classes preparing for AP Physics examinations
- Designed engaging, rigorous, college-ready, and culturally sustaining instruction as Curriculum Planner
- Delivered professional development sessions enhancing content knowledge and pedagogical practice
- Served as 11th Grade Team Lead facilitating cross-functional meetings and environmental assessments
- Incorporated differentiated instruction, technology-infused lessons, and varying assessment strategies

### Center of Pre-College Programs (NJIT), Newark, NJ | Teaching Assistant Summer 2017

- Supervised high school students during class sessions and field trips
- Assisted instructors with student activities and monitored classroom behavior
- Mentored students with emphasis on building positive relationships

## OTHER EXPERIENCE

### Parallel, Remote | Software Engineer 2023 - Present

- Implemented Next.js for server-side rendering optimizing SEO and user experiences
- Developed React component-based architecture improving code reusability and maintenance
- Collaborated with cross-functional teams converting requirements into technical solutions

### Denosoar, Remote | Software Engineer 2022 - 2023

- Leveraged React Fresh's rendering optimization reducing page load time by over 50%
- Developed server applications efficiently handling up to 1000 websocket connections
- Created interactive real-time data visualization tools improving analysis capabilities