

OSEGHLE JEFFREY AGENMONMEN

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OBJECTIVE	Electrical engineering junior seeking a Summer 2026 hardware engineering internship. Hands-on experience with circuit design, power electronics, and motor-driven electronic systems.	
EDUCATION	Iowa State University – Ames, IA Bachelor of Science in Electrical Engineering	Expected May 2027
	Brockenhurst College – Brockenhurst, UK AS/A-level Course Program	Sep 2022 – Jul 2023
ACADEMIC PROJECTS	DC Motor Driver System with PWM Speed and Direction Control	Jan 2026
	<ul style="list-style-type: none">Designed and implemented a DC motor drive system using an Arduino and TB6612FNG motor driver with PWM-based speed control.Integrated potentiometer and pushbutton inputs for real-time speed and direction control, with proper pull-down resistor interfacing.Implemented Hall-effect encoder feedback using interrupts to monitor motor rotation and direction.	
	Signal Generator Design Project	Oct 2025
	<ul style="list-style-type: none">Collaborated on designing and building a multi-waveform signal generator producing sine, square, and triangle outputs at varied voltages.Implemented oscillators, non-inverting amplifiers, and diode-based waveform shaping.Tested and debugged analog circuits to ensure stable oscillation and accurate outputs.	
PROFESSIONAL WORK EXPERIENCE	Iowa State Department of Residence – Ames, IA <i>Resident Assistant</i>	Aug 2025 – Present
	<ul style="list-style-type: none">Fostered a positive, inclusive community for 41 residents through leadership, mentorship, and clear communication.Organized and led programs/events while collaborating with staff to ensure safety, engagement, and student success.Resolved conflicts and supported peers by applying active listening, problem-solving, and crisis management skills.	
	Iowa State College of Engineering – Ames, IA <i>Summer Tour guide</i>	Jun 2024 – Aug 2024
	<ul style="list-style-type: none">Led tours, explaining engineering programs and campus resources to prospective students.Answered technical and program-related questions, providing clear guidance.Collaborated with staff to ensure smooth and engaging tour experiences.	
RELEVANT SKILLS	Hardware: Wave form analysis using oscilloscopes, circuit assembly and troubleshooting, circuit board design. Software Applications and Languages: PLECS, Arduino, C, LTSPICE, MATLAB, Microsoft Office.	
LEADERSHIP & ACTIVITIES	National Society of Black Engineers <i>Club Member</i>	Aug 2023 – Present
	Intramural Basketball <i>Team Captain</i>	Apr 2024, 2025, 2026