

PORTFOLIO

2025

SELECTED ACOMPLISHMENTS
AND PROJECTS



ENGINEER WELDING

T A B L E O F C O N T E N T S

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Aspiring Welding Professional

SUMMARY

Highly dedicated and enthusiastic individual with a profound commitment to welding, seeking to acquire comprehensive education in the field. Possesses a natural curiosity for detailed discussions about various welding techniques, features, and applications, coupled with a drive for continuous improvement. Demonstrated technical aptitude through 2F welding certification and Fusion 360 certification, with a strong ambition to contribute to the field at a higher level.

SIGNATURE ACHIEVEMENTS

- Welded the national championship-winning solar car framework, a groundbreaking achievement as the first school, high school or college, to do so.
- Earned multiple graduation cords for academic excellence and workplace readiness.
- Achieved 2F welding certification and certification in Fusion 360, demonstrating strong technical commitment to the field.
- Excelled in challenging coursework, including AP classes and engineering CTEs.
- Invited to the National Honor Society, highlighting well-rounded achievements and character.
- Led the TSA team to state.

EDUCATION

(August 2020- May 2025)

Somerset, KY

ACT: 28

- Achieved Academic Readiness
- Achieved Career Readiness
- Invited to National Honor Society

SIGNATURE SKILLS

- | | |
|---|--|
| <ul style="list-style-type: none">2F WeldingFusion 360Solar Car Framework FabricationVarious Welding TechniquesTeam LeadershipCollaborationProblem-SolvingResponsibility | <ul style="list-style-type: none">Assisting OthersAcademic ExcellenceWorkplace ReadinessContinuous ImprovementNatural CuriosityIntellectual AptitudeStrong Communication |
|---|--|

RELEVANT EXPERIENCE

Solar Car Framework Fabrication

- Welded the national championship-winning solar car framework, a groundbreaking achievement as the first school, high school or college, to do so.
- Applied advanced welding techniques to construct a robust and precise framework that contributed to a national victory.

Independent Welding Projects

- Took the initiative to repair a stepfather's exhaust system, showcasing willingness to tackle challenges and apply welding skills independently.
- Consistently sought opportunities to apply and expand welding skills beyond formal settings.

CERTIFICATIONS

Welding: 2F Welding Certification | Software: Fusion 360 Certification

AWARDS AND HONORS

Invited to the National Honor Society

Beyond the Helmet: My Vision for a Welding Career at Lincoln Tech

Welding is more than just a trade - it's a form of art that requires precision, skill, and a dedication to continuous learning. It is these reasons that welding draws me and I am driven to master the art of welding at Lincoln Tech. Welding has captivated me since the first day that I attended my first class at Pulaski Area Technology Center. Learning the techniques and all the precision that goes into the trade has accelerated my curiosity and fascination with this field. I dream of becoming a welding engineer, allowing me to put both my experience in welding technologies and my engineering to use. I would love to help people learn from me and to create blueprints, and to be able to bring these blueprints to fruition myself.

I am extremely excited about the prospect of gaining the remaining certifications I have yet to earn and the experience Lincoln Tech can offer me. The ability to learn at the state-of-the-art welding facilities that Lincoln has and work on projects is an invaluable opportunity to me. The school's reputation for practical, hands-on training and comprehensive welding programs makes it an ideal place for me to continue my journey towards achieving my goals. The research that I have put into the school learning the value of the program and what it has to offer has showed me it is the ideal environment for me and my learning style. During my time working in the National Solar Car Challenge, I developed a love for creating something entirely new from raw material. I welded the frame together. Watching the form slowly shape together, and my welds flawlessly hold up when rigorously tested on the track, then continuing to win the national championship was a turning point for me.

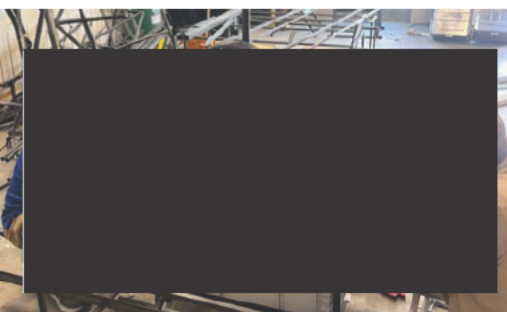
My goals and aspirations extend far beyond simply acquiring a welding certification. I see myself as a highly skilled welder, contributing to significant projects and innovations within the industry. I am confident that Lincoln Tech, with its focus on practical training and industry connections, will provide the essential foundation and resources to help me achieve these ambitions and will allow me to achieve the Hall of Fame challenge within Lincoln Tech. I am eager to embark on this journey at your institution and dedicate myself to mastering the craft of welding.



Student Information		2022-2023		Standard Tests	
Grade: 12		Course	Mark Weight Credit		
				</	

WELDING THE SOLAR CAR

Being the only welder during the 2024-25 year, my welds were expected to remain of the highest quality to ensure safety for all. My welds held strong for the entire event, allowing us to win national championships at the Texas Motor Speedway



Me advising the instructor on the welding processes



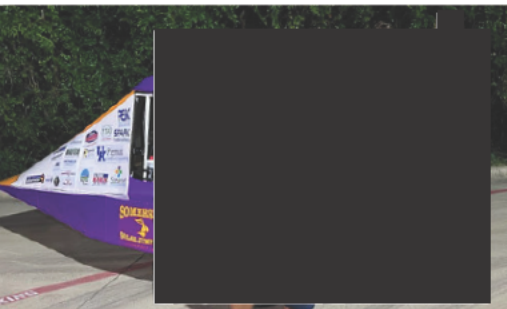
Me making repairs to the Flux-Core welder to teach others the basics.



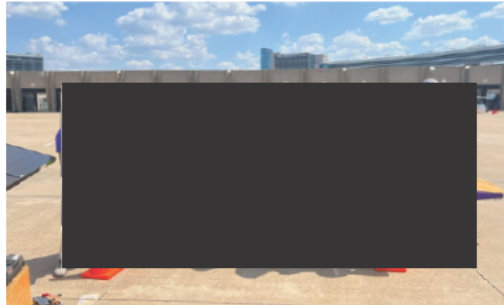
The rollcage being welded to ensure safety.

SOLAR CAR CHALLENGE

During the challenge time, the car was rigorously tested. During this time, we took some pictures with us and the team.



A team photo before the
Solar Car Challenge



2nd day of the championships



Testing the bending and
safety of the car

Kentucky engineering students show out on national stage

Story shared by Lighthouse Beacon Foundation

Eastern Kentucky students showcased their hard work and talent at several national competitions this summer. And they didn't come home empty-handed.

In June 2024, 58 students competed at the National Technology Students Association (TSA) competition in Orlando, Florida. Kentucky students placed nationally in the following categories.

- **Inventions and Innovations Middle School** –
 - 1st place – Belfry Middle School (Pike County) Team #1
- **Children's Stories Middle School** – 7th place – Belfry Middle School (Pike County) Team #1
- **Promotional Marketing Middle School** – 5th place – Pikeville Junior High School (Pike Ind) – Anikaa Sharma
- **Promotional Marketing Middle School** – 8th place – Belfry Middle School (Pike County) – Jocelyn Smith
- **Structural Design and Engineering High School** – 10th place – Estill County Area Technology Center Team #1

Belfry Middle School won first place on their "Invention and Innovation" of the door-securing mechanism to help protect students from intruders.

"This invention was simple and innovative at the same time" said Belfry Middle School TSA adviser Andrew Baldwin. "It was lightweight so that any student, even those in primary grades or those with limited mobility could utilize it as a safety feature in a classroom."

Baldwin said this award proved that students from rural, small schools can compete on a national level. "These kids had a will and a drive to succeed,"

Baldwin said. "The students were innovative with not only their design, but their marketing and delivery."

KENTUCKY WINS SOLAR CAR CHALLENGE

Somerset Independent High School and Johnson Central High School also achieved remarkable success in the National Solar Car Challenge, held in Fort Worth, Texas.

The Solar Car Challenge was established in 1993 to help motivate students in science and engineering, and to increase alternative energy awareness. The Solar Car Challenge, founded by Dr. Lehman Marks, teaches high school students around the world how to build roadworthy solar cars. Students design, build, and race their solar-powered cars in a competition setting.

Somerset Independent High School's team, the Somerset Solar Jumpers, emerged as national champions in the "Electric-Solar" division. The team completed an impressive 462 miles over 308 laps, earning the "Most Laps" award each day of the competition. The Solar Jumpers also received the prestigious "Chris Jones" award for exemplary sportsmanship and the "True Spirit of Solar Car Racing" award coin.

"The experience as a whole, in my three years, has already equipped me with skill sets that I am able to apply in college and everyday life," said mechanical lead Daylan Dungan.

The Somerset Solar Jumpers are guided by engineering teacher Brian Coleman and Technology Technician Jason Ruble. The team includes Dungan, Cameron McCaskill, Ethan Ruble, Anderson Ruble, Brenden Wilson, and David Ledford.

"I am very proud of our students, our school, and our community," Coleman said. "This type of large-scale project based learning (LS-PbL) initiative requires an investment of support from all vested parties of resources, time, mentoring, and



The Johnson Central EagleX car (left) and the Somerset Independent Solar Jumpers car (right) are shown in action.

encouragement. However, the rewards for those students who participate are immeasurable." Johnson Central High School's team, EagleX, finished fourth overall in the "Classic" division, covering 324 miles and completing 216 laps. The team, advised by engineering teacher Nathan Reel, consists of Brandon Grass, Hudson Lewandoski, Shadrach Reinthaler, Ivy Young, Brady Daniel, Aiden Burkett, and Elijah Skaggs.

EagleX was honored with the "Oncor" award, recognizing the team that best represents solar car education within their community.

"Receiving this award among the best high schools in the nation is an incredible honor," Reel said. "This accolade reflects not only our engineering program, but also our welding program and the strengths of our diverse pathways. We are deeply grateful for the support of our community, which has been vital to our success."

Additionally, Ivy Young and Shadrach Reinthaler from Johnson Central, along with advisor Brian Coleman from Somerset, were inducted into the "Order of the Solar Cell." This honor recognizes those who demonstrate a profound belief in high school solar car racing and the students who drive it for ward.

"The competition was outstanding with amazing peers, advisors, and judges," said Grass, EagleX's team captain. "The opportunity to travel, meet new people, and make connections is invaluable for future college students. I'm forever thankful to the solar car organization and everyone who supported us."



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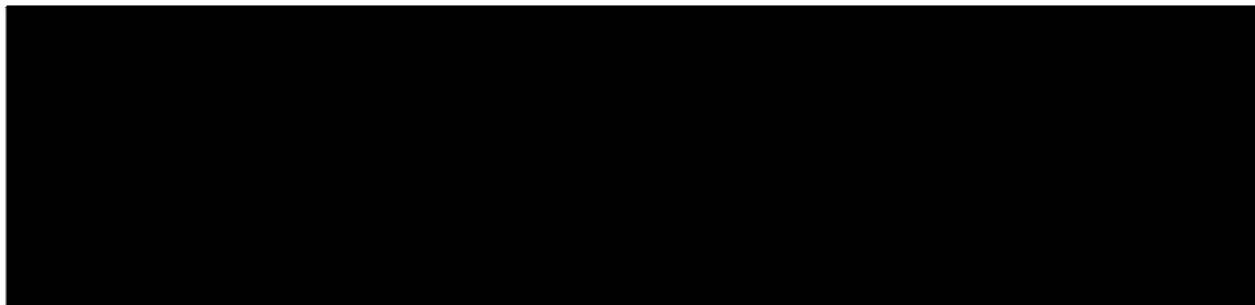
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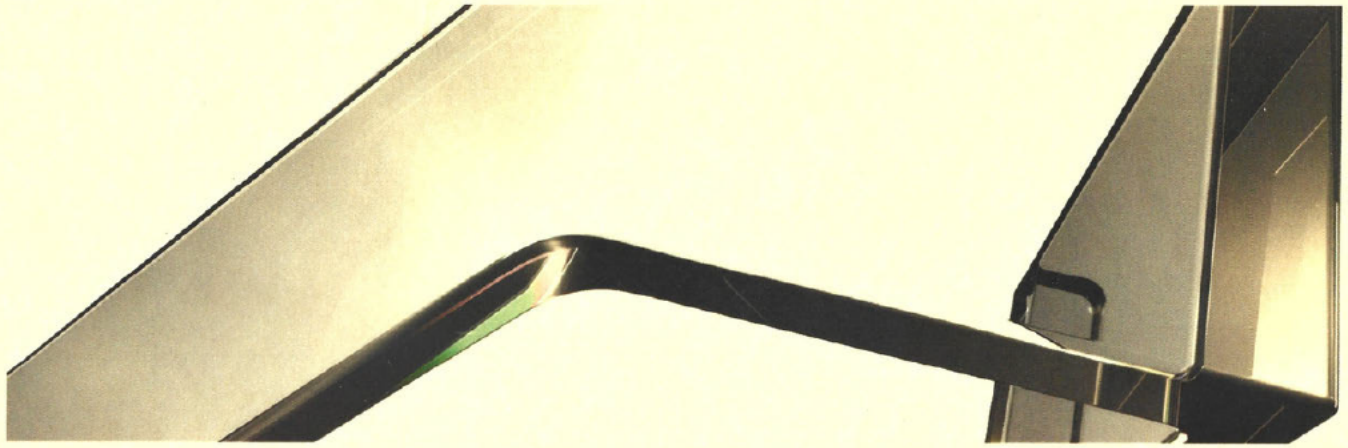
is given recognition for

2024 National Solar Car Champions

Signed this Thirteenth *Day of* August, 2024


Superintendent


Chairman Somerset Ind. Bd. of Ed.



In recognition of a commitment to professional excellence, this certifies that



has successfully completed the program requirements of

Autodesk Certified User: Fusion 360®

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March 25, 2024

Date

Andrew Anagnost
President, Chief Executive Officer

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Kentucky Department of
EDUCATION

CERTIFICATE OF SKILL ATTAINMENT

THIS ACKNOWLEDGES THAT



Has met the benchmark on the
Mechanical Engineering

Kentucky Career & Technical Education End-of-Program Assessment

April 16, 2024

Robin Fields Kinney

Interim Commissioner of Education, Kentucky Department of Education



Kentucky Department of
EDUCATION

CERTIFICATE OF SKILL ATTAINMENT

THIS ACKNOWLEDGES THAT



Has met the benchmark on the
Engineering Design

Kentucky Career & Technical Education End-of-Program Assessment

April 16, 2024

Robin Fields Kinney

Interim Commissioner of Education, Kentucky Department of Education

05/16/2025

Admissions Committee
Welding Program Lincoln Technical School
Nashville, TN

Dear Admissions Committee,

It is with genuine pleasure that I recommend [REDACTED] for the Welding Program at Lincoln Tech in Nashville. As his mentor for the past seven years, I have had the distinct privilege of witnessing his significant development, profound dedication to welding, and unwavering commitment to excellence in this field.

From the moment [REDACTED] developed an interest in welding, his enthusiasm has been unwavering. I recall him eagerly persuading his mother for a welder, a testament to his early and genuine fascination with the craft. Since then, he has consistently sought opportunities to apply and expand his welding skills, even taking the initiative to repair his stepfather's exhaust system, showcasing his willingness to tackle challenges.

Beyond his own projects, he consistently demonstrates a strong sense of responsibility and readily steps forward to assist anyone in need. That's a quality I really respect and value from my time as a Sergeant in the U.S. Army – it reflects his character and how well he works with a team.

His passion for welding is truly infectious. [REDACTED] possesses a depth of knowledge and can engage in detailed discussions about various welding techniques, features, and applications for hours on end. His achievements of 2F welding certification and certification in Fusion 360 further show his commitment to the technical aspects of this field.

[REDACTED]'s desire to attend Lincoln Technical School is rooted in his ambition to acquire the most comprehensive education possible in welding. He recognizes Lincoln Tech's reputation for providing exceptional hands-on learning experiences, and this aligns perfectly with his desire to not just perform the job, but to thoroughly understand it and strive for continuous improvement. His natural curiosity drives him beyond surface-level knowledge, a trait that will undoubtedly serve him well in a program like yours.

His accomplishments throughout high school, including welding the national championship-winning solar car framework (a groundbreaking achievement as the first school, high school or college, to do so), earning multiple graduation cords for academic excellence, workplace readiness, and dual credits, leading the TSA team to state, and excelling in challenging coursework such as AP classes and engineering CTEs, are a testament to his intellect, dedication, and leadership potential. His invitation to the National Honor Society further highlights his well-rounded achievements and character.

[REDACTED]'s future aspiration to become a welding engineer demonstrates his forward-thinking approach and his desire to contribute to the field at a higher level. He consistently seeks to improve processes and applies himself fully to the endeavors he cares about.

I believe [REDACTED] possesses the intellect, technical aptitude, dedication, and genuine passion to excel in your Welding Program. He is a driven and capable young man with a bright future, and I am confident that he will be a valuable addition to Lincoln Technical School.

Please do not hesitate to contact me if you require any further information.

Sincerely,

[REDACTED]
[REDACTED]

To Whom It May Concern,

I am pleased to write this letter of recommendation for [REDACTED], a driven and hardworking recent high school graduate who is preparing to begin welding school. I have had the pleasure of knowing him during his high school career and have consistently been impressed by his strong work ethic, determination, and hands-on aptitude.

[REDACTED] has demonstrated a genuine interest in skilled trades and a particular passion for welding. Whether it was through class, personal projects or the Solar Car Challenge—he showed remarkable attention to detail, patience, and pride in producing quality work. His ability to stay focused, follow safety protocols, and work well independently or as part of a team speaks volumes about his potential in a career that demands precision and responsibility.

Beyond technical interest, [REDACTED] is also respectful, dependable, and grounded—qualities that will serve him well in both school and the workplace. I have no doubt that he will approach welding school with the same dedication and maturity he has shown throughout high school.

I wholeheartedly recommend [REDACTED] as an outstanding candidate for welding school and believe he will make the most of this opportunity. Please feel free to contact me at [REDACTED] if you would like additional information.

[REDACTED]

[REDACTED]

[REDACTED]



May 16, 2025

Admissions Committee
Lincoln Tech
Nashville, TN

To Whom it May Concern,

I am writing to offer my recommendation for [REDACTED] as a candidate for your Welding Technology Program. While I am not an educator or direct supervisor of [REDACTED]'s, I have had the privilege of working alongside his mother for several years and have witnessed firsthand the incredible dedication, skill, and drive that he brings to everything he does.

What stands out most about [REDACTED] are his early accomplishments in welding. Most notably, he was the lead welder on his high school's solar car team, responsible for welding the entirety of the vehicle that went on to win a national championship—outperforming both high school and collegiate teams, including the University of Kentucky. This achievement highlights both his technical skill and work ethic.

[REDACTED] is already a certified welder and holds certification in Fusion 360, showing a level of professional readiness uncommon among students his age. He also completed two engineering Career and Technical Education (CTE) pathways, successfully passed the End-of-Program assessments (EOPs), and earned dual college credit while still in high school. His dedication and commitment are reflected in his early achievements.

He was also Team Captain of the Technology Student Association (TSA) team that advanced to the state level, demonstrating his leadership, innovation, and teamwork in STEM-related pursuits.

Though my connection to him is through his mother, I can confidently say that his record speaks volumes. He is a young man with an impressive mix of technical ability, academic strength, and personal integrity. I have no doubt that [REDACTED] would thrive in your program and make meaningful contributions in the field of welding.

Please feel free to contact me if you need any additional information.

Sincerely,

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]