

*Curriculum Vitae*

**Joseph Cooper**

*Thermodynamic Solutions LLC, Yorktown, IN*

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**EDUCATION**

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- **Certificate in Meteorology**, Mississippi State University, Starkville, Mississippi, August 2021.

**PROFESSIONAL PROFILE**

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- September 2016-Current  
**Co-Owner and Operational Meteorologist**, Thermodynamic Solutions LLC, Yorktown, IN.  
*Operational Responsibilities:* Creator and forecaster for daily, weekly, monthly, and seasonal forecasts for the Ohio Valley and Great Lakes region; Effectively communicate complex weather information and aid in decision-making processes for clients in a variety of industries including: hospitals, agriculture, snow removal, landscaping, outdoor event venues, Minor League Baseball stadiums, golf courses, schools, and more.  
*Product Management/Development Responsibilities:* Invention of custom weather forecasting products for Commercial and Agricultural clients to improve forecast accuracy and decision-making processes.  
*Research Responsibilities:* Invention of the C-C Index, a tornado forecasting parameter used in severe weather forecasts for clients, that has been successful at forecasting tornadoes to the county level 24 hours before the event occurs.  
*Media Responsibilities:* Weather blogger for tdsweather.com clients and followers; Featured in agricultural and turf news website articles as a guest weather analyst for outlets including Bloomberg News and CDGA.org; Several on-air news appearances on nation-wide outlets including Fox News, CBS, and NBC; Operate social media accounts for the company (@tdswx) including Twitter, Instagram, Periscope, LinkedIn, and Facebook.
- March 2014-August 2016  
**Operational Meteorologist**, Bamwx LLC, Greenwood, IN  
Severe weather specialist and on-call meteorologist for clients in a variety of industries; Issued short and long-range video forecasts and text discussions, Issued tropical and synoptic-scale forecast videos and discussions, Published web-based content for the company website and social media outlets; Developed educational presentations; Daily interaction with current and potential clients.

- June 2013-August 2013      **Intern**, WISHTV 8 Weather Center, Indianapolis, IN.  
Worked closely under Meteorologists Ken Brewer and Robb Ellis issuing localized forecasts for various newspapers; Creating forecast graphics for on-air shows, Developing 8-day forecasts; Publishing blogs, images, and other weather-related content at wishtv.com.
- October 2012-May 2013      **Assistant Production Manager**, College of DuPage, Glen Ellyn, IL.  
Video and audio editor for the College of DuPage Multimedia Department; On-campus photography and videography; Shooting B-roll video; Running in-house and field audio and visual technology; Running and editing the TelePrompTer; Gained experience using Final Cut Pro software.
- October 2011-Current      **Founder**, Indiana Storm Chaser's Convention. Indianapolis, IN.  
Founded the annual Indiana Storm Chaser's Convention that brings together storm chasers, meteorologists, and weather enthusiasts from around the United States and Canada, for a day full of weather-related presentations and discussion. The convention has grown to hosting nearly 200 attendees per year.

## RESEARCH

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- March 2015-Current      **C-C Index**, Thermodynamic Solutions LLC, Yorktown, IN.  
Designing and researching a tornado forecasting parameter in high-resolution weather models to accurately predict tornadoes and tornado outbreaks in the United States. The index has been successful at predicting tornadoes at the county level 24 hours before the event occurs.

## SOFTWARE AND COMPUTER SKILLS

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- Microsoft Office Suite
- Photoshop
- Final Cut Pro
- Screencast
- Gibson Ridge Products
- Baron Broadcast Technologies

## AWARDS AND CERTIFICATIONS

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- Broadcast and Operational Meteorology Certificate, 2021
- Dean's List Recipient, Mississippi State University, 2018-2021
- Top finishes in the WXChallenge, 2012-2013
- Certified Storm Spotter; 2007