CRM SW Options for ILOs

Tara Lannigan Alex Bandar John Foster

Benefits and Challenges of a CRM

BENEFITS

- Saves valuable time (if you invest time up front)
- Ups your reporting game
 - Weekly basis for staff meetings, quarterly for "look ahead" meetings, and annual for NSF
- Easier to store and organize information
- Oftentimes there are integrations with your existing tools

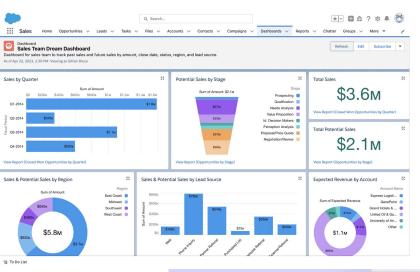
CHALLENGES

- Adoption from other users (and yourself!)
 - Time investment in learning and building habits
- Every system has its quirks
- Privacy and security

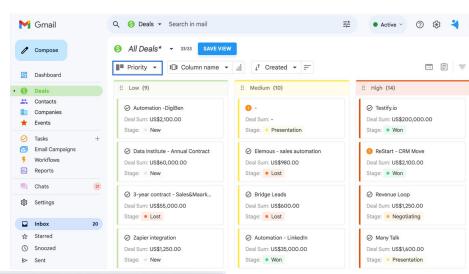
What I've Used

CRM	Context	Highlight	Pros	Cons
Salesforce	Medium tech company (4000 people)	Most robust CRM, but maybe not necessary for our purposes	-Stellar customization -Plenty of integration options	-Slow to learn/implement -Expensive
Monday.com	Small tech startup (100 people)	Organized interface, affordable	-Decent customization and lots of views -Good templates and automation -Project management	-Medium learning curve -Hard to see all tasks from multiple boards
NetHunt	ERC	Embedded into Gmail but clunkier than other options	-Don't have to leave Gmail -Most responsive support team	-Clunky features include adding new contacts, reworking the dashboards -Costs extra to build out more customized reports

Salesforce



NetHunt







How I pitched CRM to my Center Director/MD

A CRM is an essential piece of managing our ecosystem of partners, leads, and contacts in an organized and efficient way.

Two options to consider are <u>Monday.com</u> and <u>NetHunt</u>. We will not consider Salesforce due to price.

- NetHunt specifically highlights its integration with Gmail and LinkedIn, two tools that many CS3 team members already use and navigate well. "NetHunt is not just integrated with Gmail — it is literally built inside it; blended with its UI. Learning our system is intuitive and seamless for existing Gmail users."
- Tara has experience using Monday.com and could jump right in without training. Monday.com also has a userfriendly interface that will allow other team members to pick it up easily.

Comparison of NetHunt vs. Monday.com here.

Annual pricing for 5 users:

	Basic	Standard	Pro
Monday	\$720	\$1,020	\$1,680
NetHunt	\$1,440	\$2,040	\$2,880

Demos scheduled:

- **NetHunt** on Mon 10/21 at 9:00am
- Monday.com on Wed 10/23 at 2:15pm

Comparing Options

- https://www.softwareadvice.com/crm/
- Check "compare" for as many CRMs you would like to compare sideby-side
- Other tools I've used:
 - Hubspot
 - Trello
 - Asana

Information
Architecture of the
NSF HAMMER-ERC
Innovation
Ecosystem

Philosophy and Strategy for Communication, File Sharing, and more

Outline

- Broad suite of tools NSF HAMMER-ERC uses for communication (2 minutes)
 - o Teams, Circle, and more
- Narrower selection
 - Hubspot
 - Contacts, companies, search filters (5 minutes)
 - Emails, RSVPs (5 minutes)
- Questions?

STEVEN JOHNSON

"A FIRST-RATE STORYTELLER."-THE NEW YORK TIMES

WHERE GOOD IDEAS COME FROM

A NEW YORK TIMES BESTSELLER

THE NATURAL HISTORY OF INNOVATION

"ENTERTAINING AND SMART."
-LOS ANGELES TIMES

FROM THE BESTSELLING AUTHOR OF EVERYTHING



The Liquid Network

Need	Options	Selected
A place where all of our contacts and their information are stored (with customizable fields and searchable filters)	Excel, AirTable, Hubspot	Hubspot
a way to communicate with all or segments of our community	Outlook, Mailchimp, Constant Contact, Hubspot	Hubspot
A way to communicate our wins, our brand, invite participants to join us, and grow our professional community	LinkedIn, Newsletter	LinkedIn + Newsletter
a way to communicate our wins, our brand, invite participants to join us, and grow our K-12 and informal community	Instagram, Facebook, YouTube	Instagram, YouTube, Newsletter
a newsletter tool to send communications to our community	Mailchimp, Constant Contact, Hubspot	Hubspot
	Hammer.osu.edu website	Hammer.osu.edu
a "digital, internal clubhouse" where our team (students, researchers, staff) can communicate informally but productively	Circle, Mighty Networks, Raklet, Nexudus, Wild Apricot, Teams	Circle
a digital repository for all of our files (data, processes, reports)	Teams, Google Drive, Dropbox, Box	Teams
a task management app	Teams "To Do", Asana, Monday.com,	Teams "To Do"
a survey tool	Qualtrix, SurveyMonkey, Google Forms	Qualtrix



Linked in







Hubspot LinkedIn

Instagram

YouTube

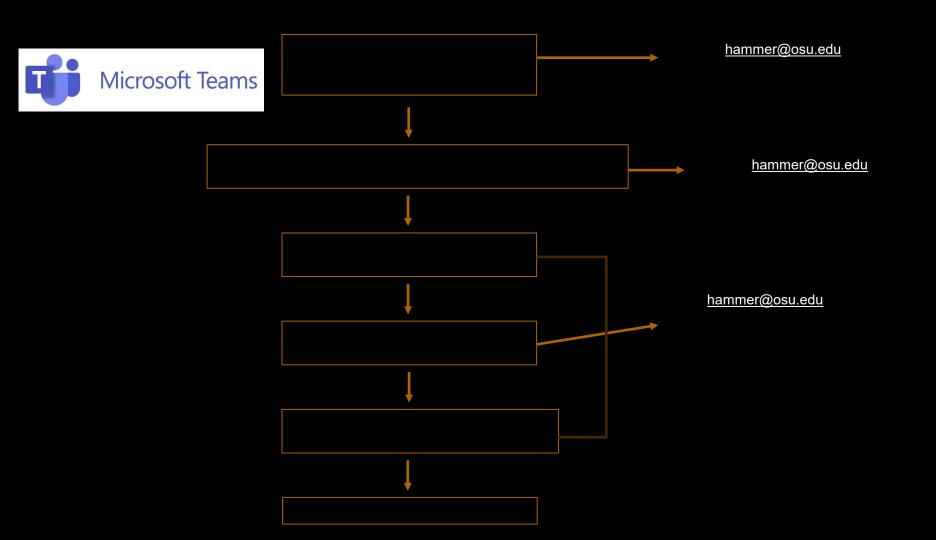
hammer.OSU.edu



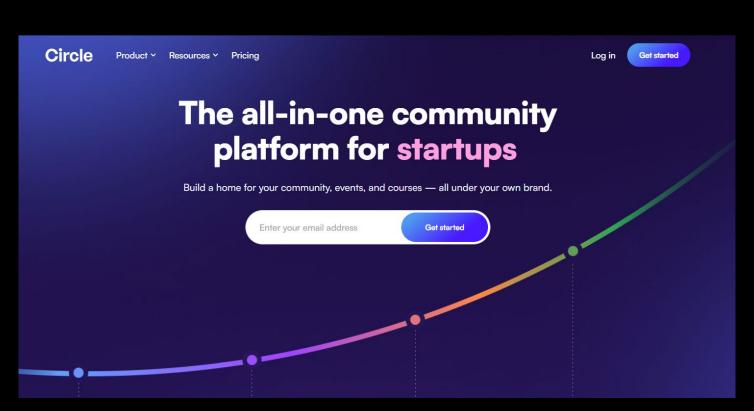
Teams

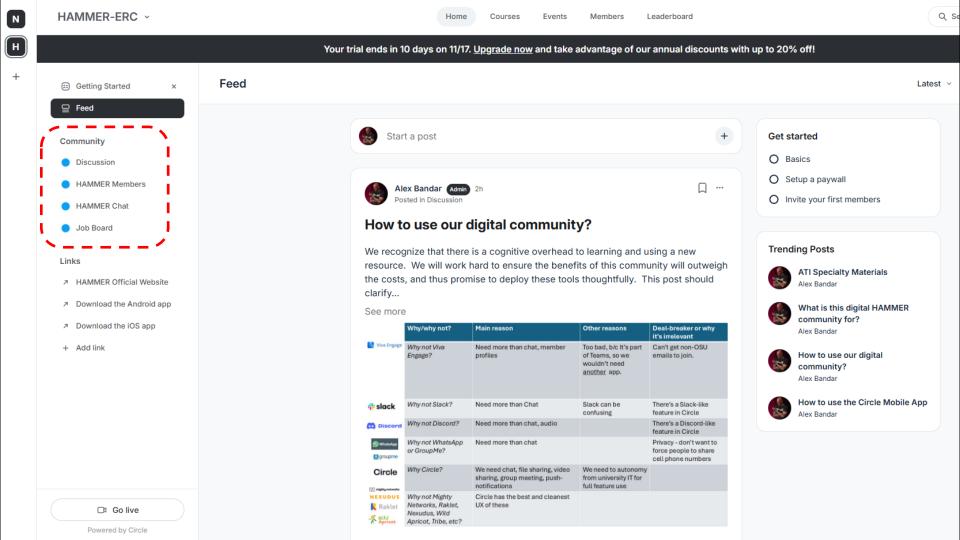


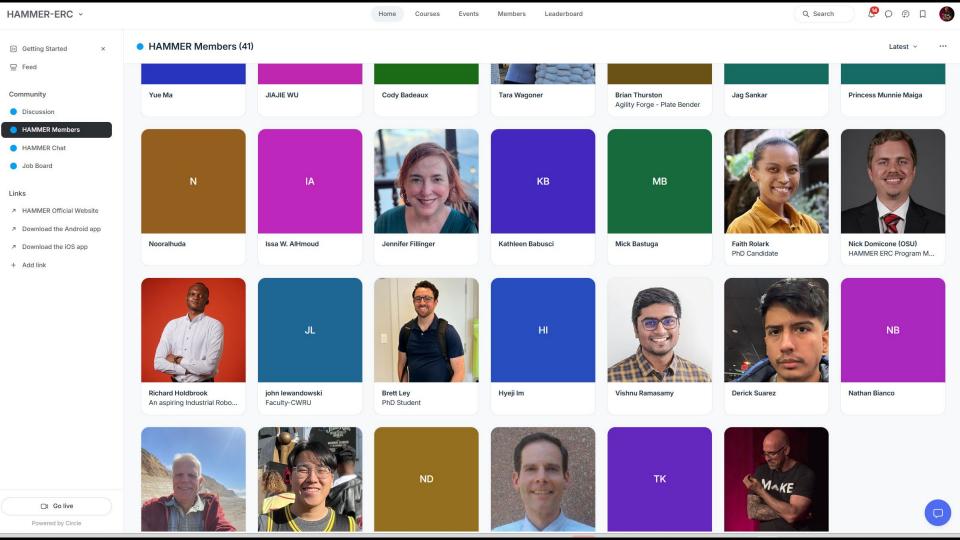
Circle













Tell us about your Thrust, Testbed, or Project!

→ Vishnu replied 2 months ago

O0 Q5



Quick post about some "wow" tech

Alex posted 2 months ago

Ø1 Q0



Tech Tuesday - comparison of FEM simulated part to real part

Alex posted 2 months ago

00 Q0



Tell us about yourself!

→ Glenn replied 2 months ago

O0 Q5



Martin Luther King Jr. Day

Alex posted 2 months ago

Ø1 Q0



Self Care Saturdays and Sundays

Alex posted 2 months ago

00 Q0



Thrusts and Testbeds Thursday - Agility Forge!



Wow Wednesday!

→ Alex replied 2 months ago



Measuring temperature with IR

→ Alex replied 2 months ago

Publication of a HAMMER-funded paper



Exciting News!

Detection for Industrial and Robotics Systems: A Comprehensive Survey," in the journal

I'm thrilled to announce the publication of my latest research paper, "Network-Based Intrusion

Electronics. This is my first published paper from my project in the field of cybersecurity in smart manufacturing, industrial, and robotic systems. This paper addresses the unique cybersecurity challenges faced by industrial and robotic systems, exploring modern intrusion detection methods such as machine learning, deep learning, and hybrid approaches to enhance detection accuracy and reduce false positives.

Nhat's in it for Researchers? This survey lays the groundwork for understanding how cyberattacks impact these systems and will serve as a foundation for analyzing the faults they generate after detection. It provides an overview of state-of-the-art methodologies, relevant datasets, and the role of emerging technologies like federated learning, blockchain, and digital twins in securing industrial and robotic environments.

Acknowledgments: I would like to thank Dr. Sun Yi, who has been my rock and shield, always motivates me, and provides an enabling environment through funding, work flexibility, and words

to NSF HAMMER Engineering Research Center for funding this research.

PLEASE Read, Cite, Comment, and Share the full paper here: https://doi.org/10.3390/electronics13224440



















Congratulations Richard! Very exciting. Thanks so much for sharing. Looking forward to connecting this afternoon!



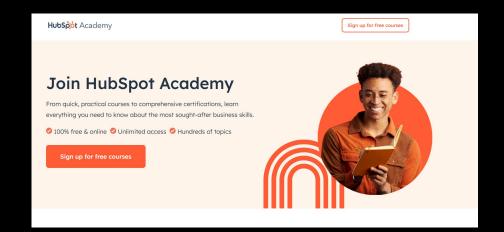
1 like

Hubspot

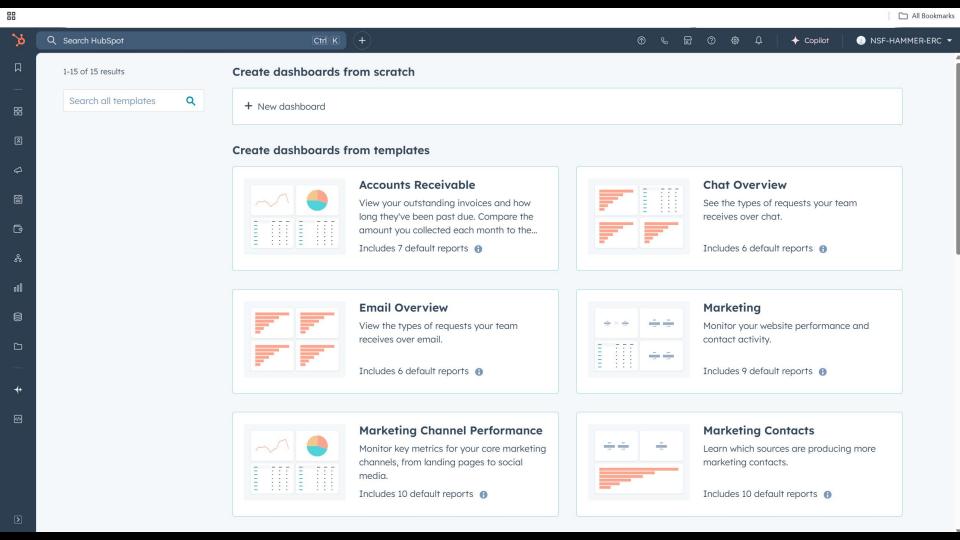
How to use Hubspot

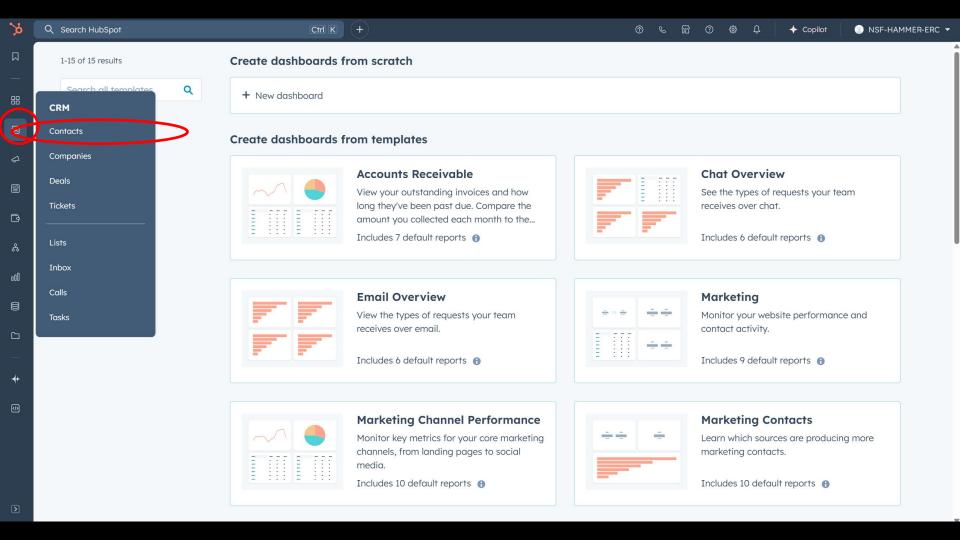
Hubspot

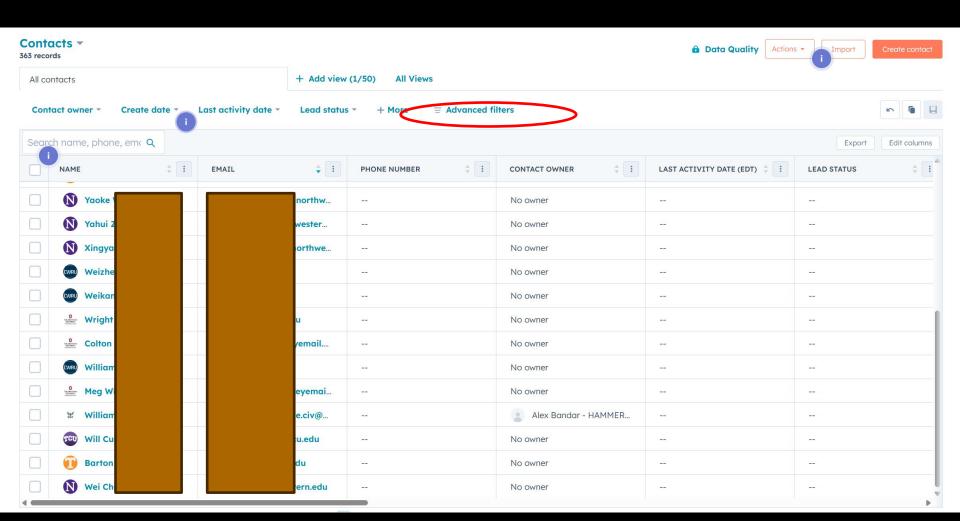
- Many ways to use it; many online tutorials
- How NSF HAMMER-ERC uses it
 - Contacts list (people, companies)
 - Newsletter feature
 - Matchmaking between people with challenges and people with skills/experience

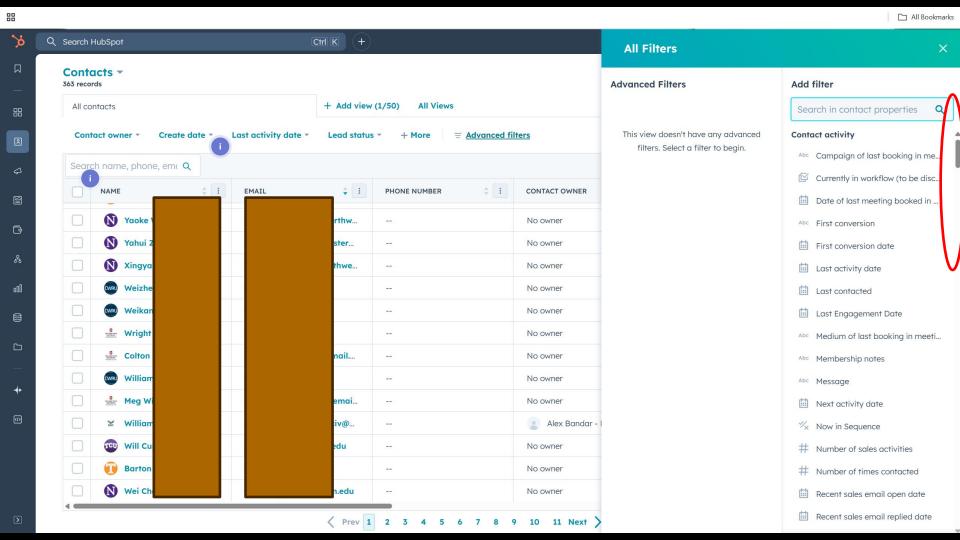


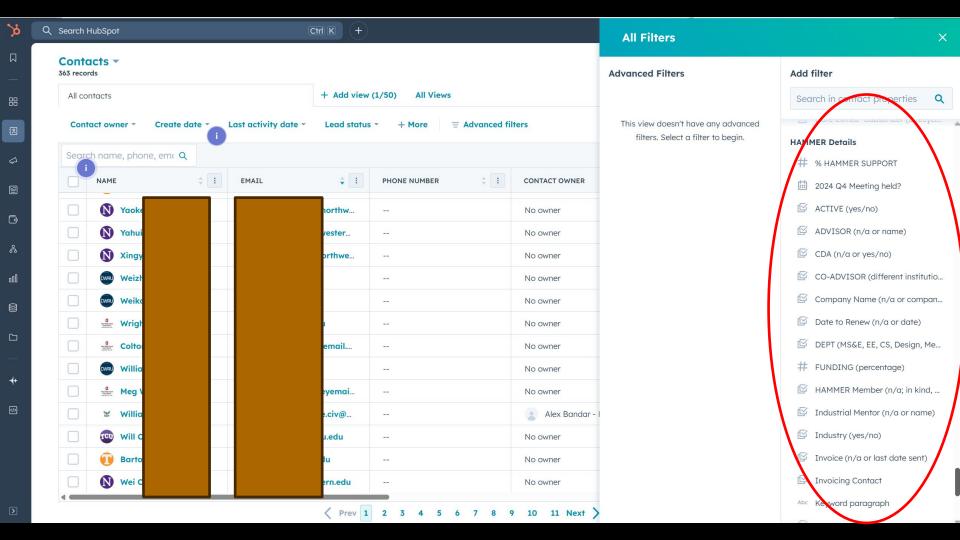
Contacts, Companies & Search Filters

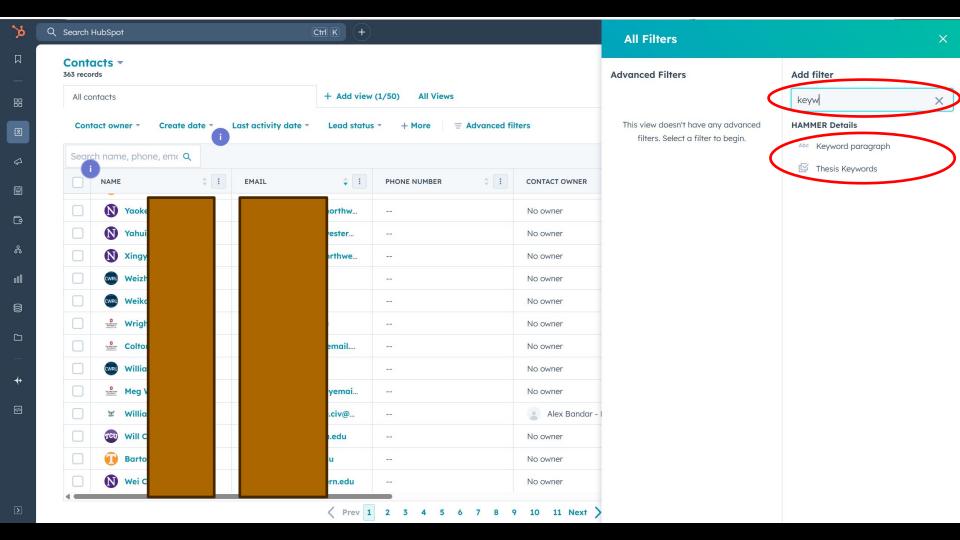


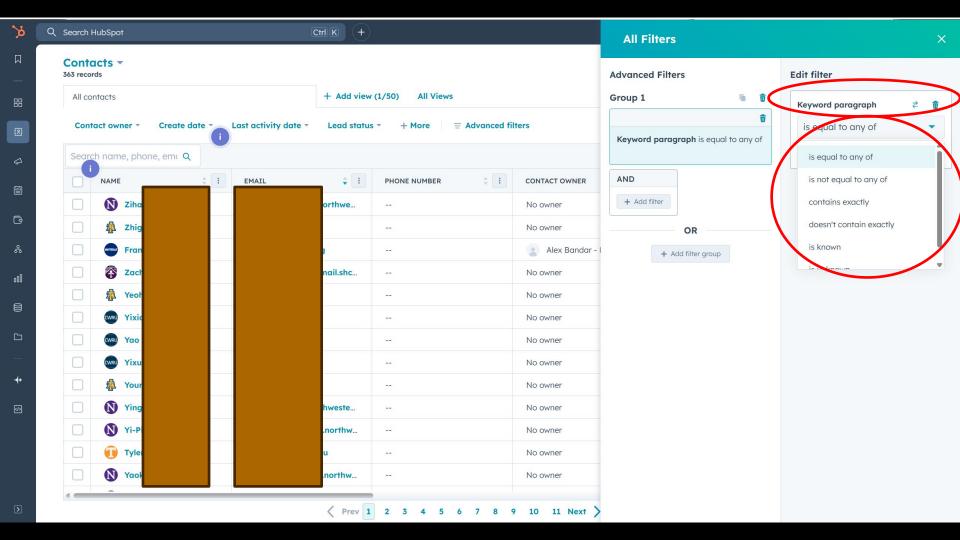


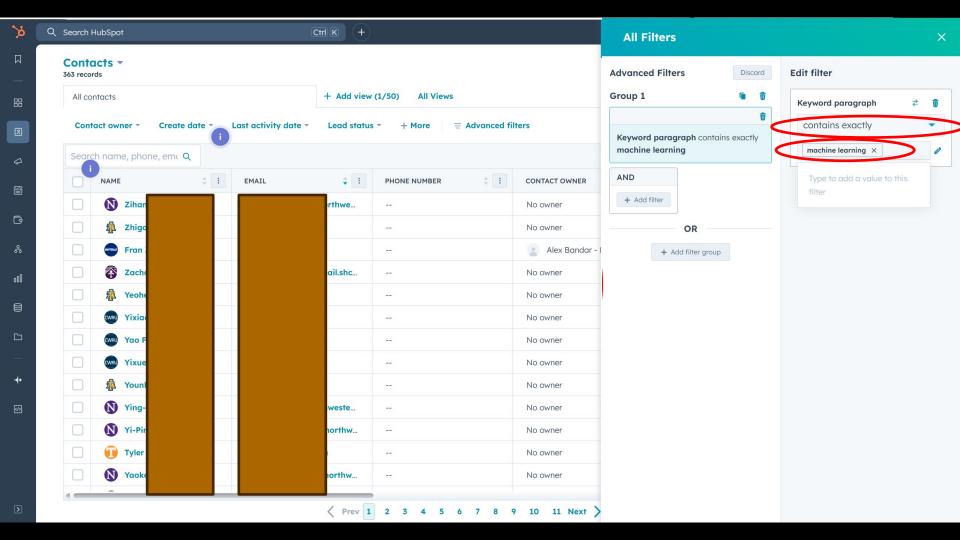


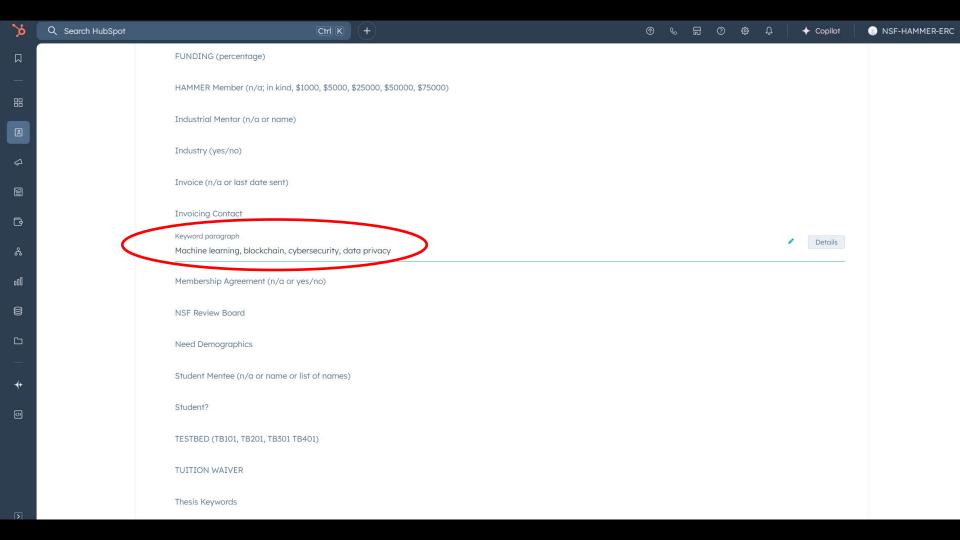


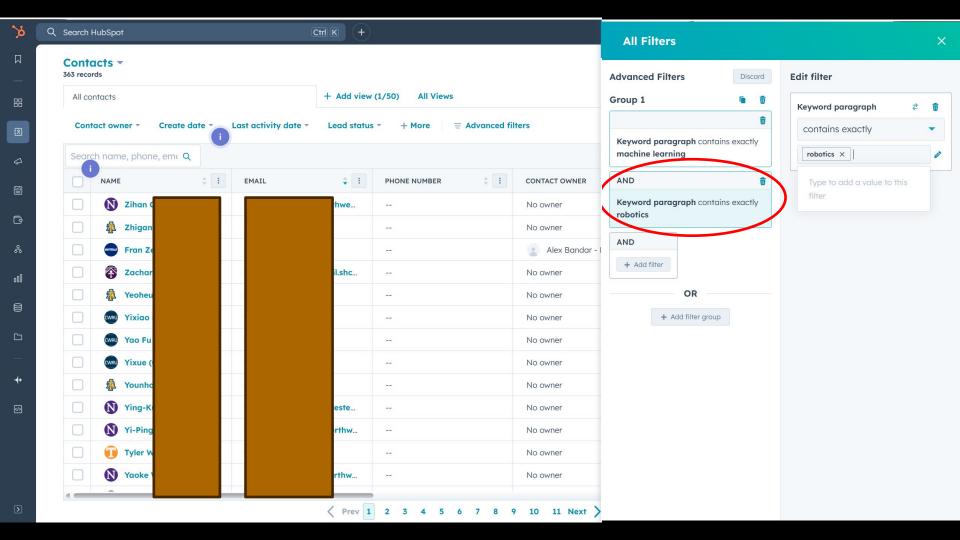


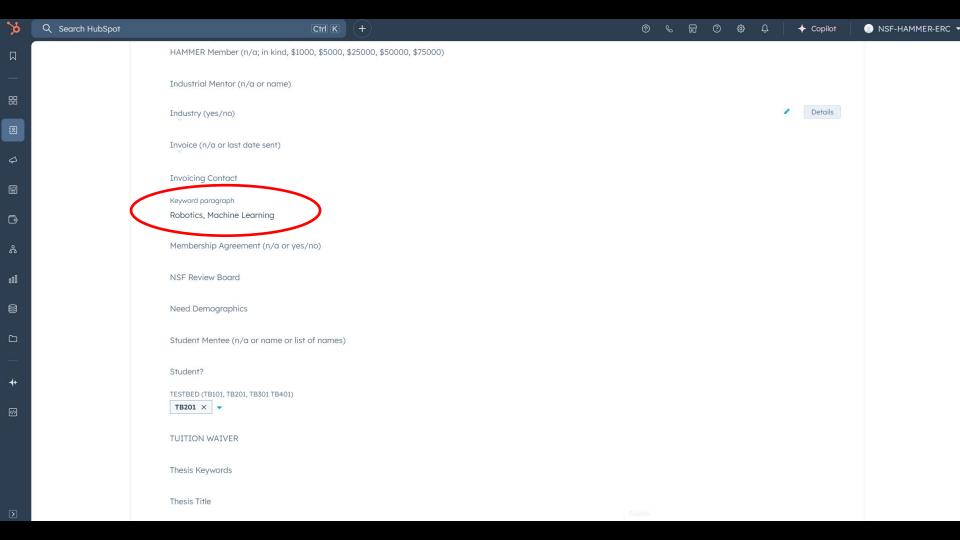












Codified / Uniformized Glossary of Term s

- Numerical Modeling
- Numerical Forming
- Numerical Simulation
- Finite Element Modeling
- Finite Element Analysis
- Microstructure Modeling
- Microstructure Evolution Modeling
- Digital Twin
- Digital Twinning

Artificial Intelligence

ΑI

Machine Learning

ML

LLM

Neural Network

Neural Networks

Neural Networking

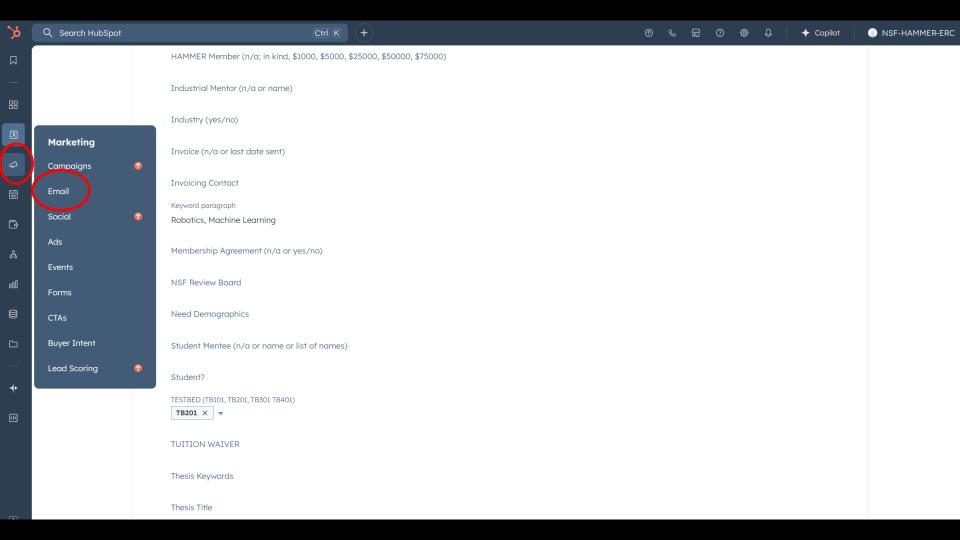
Characterization

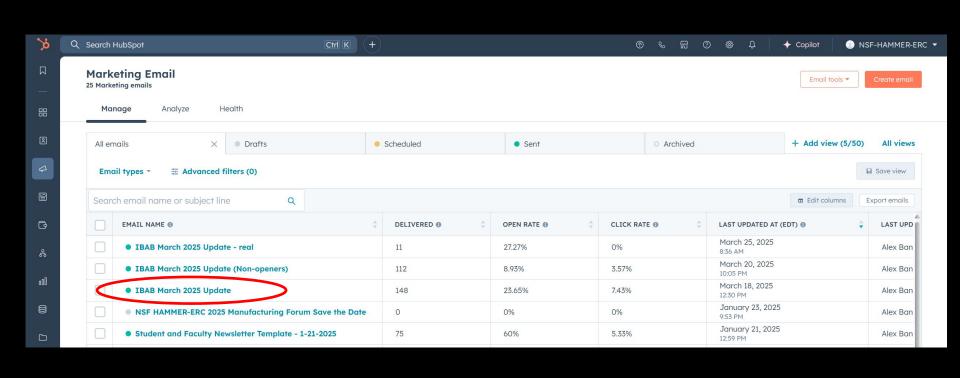
Material Testing

Material Assessment

Marketing, Newsletters & RSVPs

Search Filters







NSF HAMMER-ERC Industry Members Update March, 2025

Dear.

Thank you for your interest in the NSF HAMMER-ERC. A few updates and invitations below.

- 1. Open invitation to all for our industry connects and how to be more involved
- 2. Progress on our research, hardware, and software and how to learn more
- 3. An invitation to connect share your interests and needs directly with us
- TB2: POCM (Point of Care Manufacturing for the medical industry)
- TB1: PET-FABs (small-scale hardware forming systems for labs, schools, and more) TB3: Numerical Forming (digital modeling of our forming processes)

We have public "industry member" meetings to whom all are invited, on the 3rd

Next date - THIS FRIDAY 3/21/2025, 12pm-1pm EST. RSVP via Eventbrite here.

Following date - Friday 4/18/2025, 12pm-1pm EST, RSVP via Eventbrite here.

If you'd like to become more involved as an "industry advisory member", with

special invitations to more detailed meetings, we ask you to join NSF HAMMER-ERC as one of our members. Email bandar.3@osu.edu or call/text at 614-893-6053 for

Every week we make progress in our thrusts, testbeds, and projects. As a quick

reminder, we are actively pursuing the topics below. Each of these groups meets monthly. If you'd like to learn more about any of these topics, or if you'd like to join

the meetings, please email Alex Bandar at bandar.3@osu.edu, or call/text any time,

or schedule a meeting here (15 minutes, 30 minutes, or 60 minutes) to join as an

and progress. Schedule below - please join us!

details to join, or start the process on your own here:

https://hammer.osu.edu/hammer-membership-information

official NSF HAMMER-ERC industry member. Thank you!

T2: Tools and Process Convergence (link)

T4: Control, Intelligence, Autonomy (link)

T3: Materials State Awareness (link)

Research Thrusts:

T1: Design (link)

2. Progress on our research, hardware, and software

Friday of each month. These are general informational meetings about our projects

Link to print (white background) flyer Unlisted YouTube video of the Agility Forge in action 1. Invitation to attend open meetings



Images of tie rods autonomously forged by the NSF HAMMER-ERC "Agility Forge". First attempt to third attempt occurred over a few days of iteration. Still not quite perfect but showing a steep ascent towards a finished part forged automatically from a CAD file

3. Opportunity to connect - 15 minute, 30 minute, or 60 minute We would be glad to have more focused conversations on how NSF HAMMER-ERC may apply to you and your organization. We would also like the opportunity to find out more about vour needs and interests - if there are areas of overlap, let's discover them - with the potential of rolling them into our research thrusts. testbeds, and projects. Please feel free to email Alex Bandar at bandar.3@osu.edu, or call/text any time at 614-893-6053, or schedule a meeting below. Looking forward to connecting!

(When you click any of the links below, please then choose "Continue as Guest") Quick 15 minute chat - link to schedule here

30 minute connect - link to schedule here

60 minute conversation - link to schedule here

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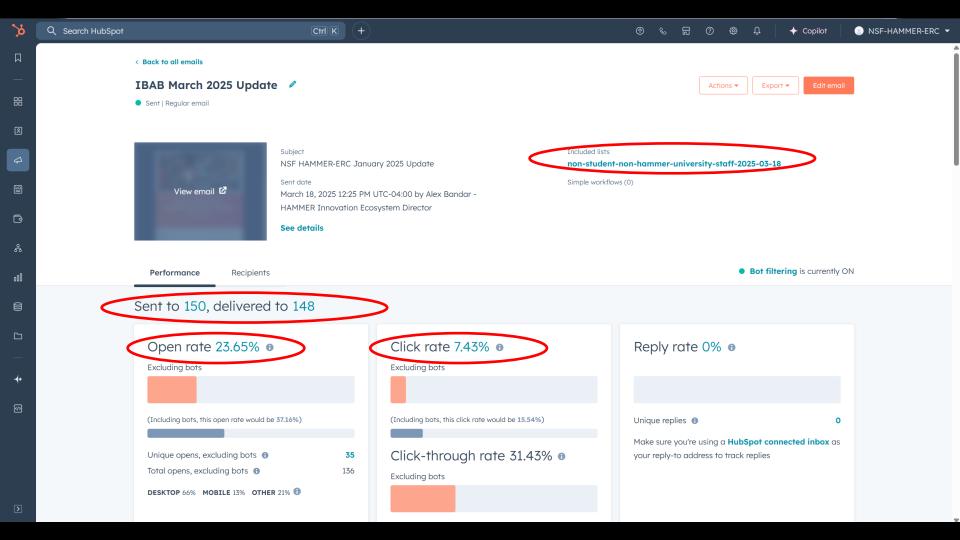
Book time with us (after you click, choose "Continue as Guest")

Thank you for your interest and participation in NSF HAMMER-ERC!









HTML click map •



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By the way, you're receiving this announcement because you are an active member of NSF HAMMER-ERC or have expressed interest in learning more. If you have any recommendations for other members, or if you'd like to change your status, please contact Alex Bandar at bandar.3@osu.edu or 614-893-6053. Thank you! Top clicked links • Combined HTML Plain text LINK CLICKS https://www.eventbrite.com/e/1291226115069 https://buckeyemailosu-my.sharepoint.com/:b:/g/personal/ban... 4 https://hammer.osu.edu/research-thrusts/research-thrusts/rese... 3 https://hammer.osu.edu/research-thrusts/research-thrusts/rese... Prev 1 2 3 Next > Top engaged contacts Clicks CONTACT Molly M ace.com> 🗗 Dean Bo David H Phil Chi

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NSF HAMMER-ERC



Friday of each month. These are general informational meetings about our projects and progress. Schedule below - please join us!

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16.7%

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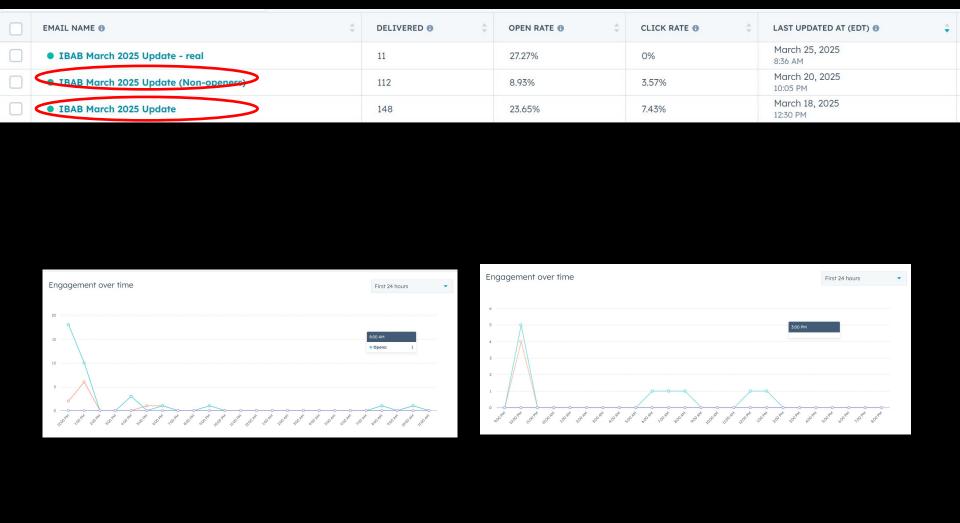
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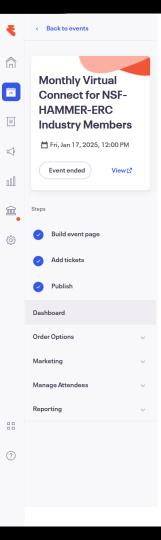
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Research Thru 8.3%

T1: Design (link) 12.5%

T2: Tools and Process Convergend





Event dashboard



\$0.00

\$0.00

01/14/2025

01/14/2025

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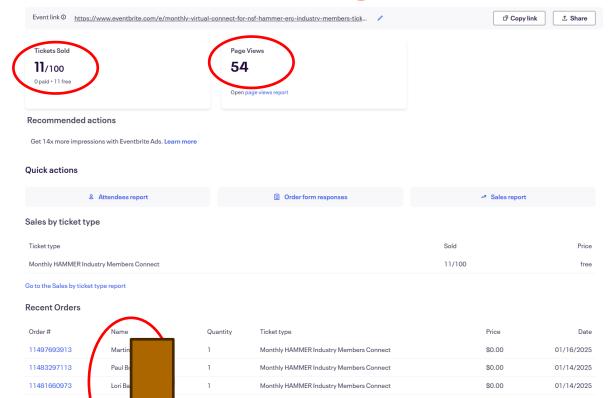
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Monthly HAMMER Industry Members Connect

Monthly HAMMER Industry Members Connect

Thank you!

Questions?
Bandar.3@osu.edu
614-893-6053