



AM MATTERS

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MESSAGE FROM THE MANAGING DIRECTOR, NAMIC

Dear Friends and Colleagues,

2020 has been an unprecedented year for all of us. Despite the planetary-scale crisis caused by the pandemic, we have seen the indomitable spirit of humanity, with the heroic effort from the healthcare community as well as the many serendipitous acts of kindness from common people particularly standing out. It has been a year where the AM community has collaborated on a global scale that has never been seen. As the year draws to a close, I will like to take this opportunity to give thanks. I wish you all and your families the joys during this festive season. Maintain social distancing and wear your mask. Continue to keep the faith, and we will get through this together. Merry Christmas.

Ho Chaw Sing
NAMIC Singapore



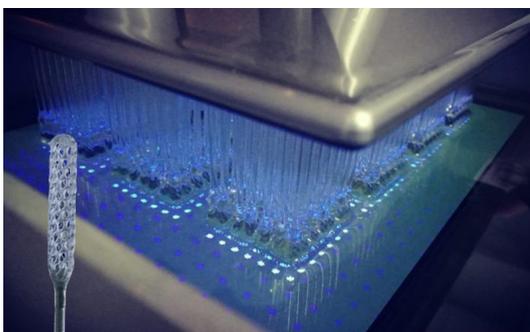
Do reach out to us if you would like to collaborate with us or find out more.

CONTACT US

YEAR IN REVIEW

- INITIATIVES -

With the world submerged in the deep end of a global crisis, the pandemic has highlighted to us the importance of collaborative efforts more than ever. NAMIC has spearheaded several projects to combat COVID-19, together with various key stakeholders.



Initiative 1: Accelerated Production of Nasopharyngeal Swabs & Face Shields

With a shortage of nasopharyngeal (NP) test swabs necessary for conducting COVID-19 tests, NAMIC jumpstarted the development and manufacturing of millions of 3D-printed NP swabs together with Temasek, Singapore Economic Development Board, National University of Singapore, National University Hospital and its Enterprise Partners – Structo, Eye2Eye, Formlabs, Forefront Medical Technology and certification company TÜV SÜD. NAMIC also launched an online [COVID-19 Response Site](#) to better connect the healthcare community with the AM industry.

[Read more](#)

Image Credits: Zaobao



Initiative 3: MPA-SSA-NAMIC JIP Phase 2

In order to accelerate a broader AM adoption in the maritime industry, the Maritime & Port Authority Of Singapore (MPA), NAMIC, and Singapore Shipping Association(SSA) have launched phase 2 of the Joint Industry Programme (JIP). Six (6) industry consortia anchored by close to 30 companies are participating to showcase the benefits of AM adoption through part re-design, printing, certification and installation of 3D printed ship parts onboard several Singapore registered vessels.

[Read more](#)

Image Credits: [Peter Leong](#)

Initiative 2: Deployable Structures by Lopelab

The Singapore University of Technology and Design and LOPELAB, supported by NAMIC successfully developed deployable structures that can be customized to meet each events' needs. The joints of the booth system are 3D printed and structures can be designed based on the existing set of parts (bars and connectors). New connectors are custom-designed and 3D printed on demand. These customizable deployable structures have overcome fixed size and form limitations encountered in tents and cubicles deployed for events.

[Read more](#)

Image Credits: [AIRLAB SUTD](#)



Initiative 4: ST Engineering's PBF Process and Housing Assembly design receives STC qualification by EASA

ST Engineering's Aerospace sector received the European Union Aviation Safety Agency's (EASA) Supplemental Type Certificate (STC) A321 for its proprietary workflow on additive manufacturing technologies and for printed aircraft component to be used in Passenger-to-Freighter (PTF) conversion. This initiative was supported by NAMIC in collaboration with NUS and Nanyang Polytechnic. This certification validates STE Aerospace's expanded capabilities in producing additive manufactured housing assemblies, and is a big step forward in their aspiration to produce AM components for the local aviation industry.

[Read more](#)

Image Credits: ST Engineering



Initiative 5: AM Careers@SG

On 1 December, NAMIC announced [AM Careers@SG](#). The portal was set up to provide a dedicated platform for employers and job seekers in the AM industry. NAMIC has also partnered with **Alexander Daniels Global (ADG)** to source for global AM talents. [AM Careers@SG](#) is set to officially launch in 2021. [Find out more.](#)

- EVENTS -

As the world continues to grapple with COVID-19, NAMIC's support and outreach programs will continue to adapt to the situation as we continue to engage our community with a series of enriching virtual and physical hybrid events.



NAMIC Webinar Series

NAMIC is embracing a new norm during the current pandemic crisis. We are hosting more online events than we ever did before. Virtual events are not bounded by geographical boundaries and travel restrictions, allowing NAMIC to maintain and grow our AM network amidst the trying times.

NAMIC Webinars Playlist:

<https://bit.ly/namicwebinarslist>



NAMIC Global AM Summit 2020

As one of NAMIC's largest annual events, the summit has successfully migrated online leveraging the [ITAP Connect](#) platform, taking place over two days on 21 and 22 October. With an exciting line-up of 12 global thought leaders and 4 expert session chairs, the summit covered an extensive range of topics with a focus on Sustainability and Emerging Applications in Space and Urban solutions.

Watch Day 01: <https://bit.ly/gamsday1>

Watch Day 02: <https://bit.ly/gamsday2>

- AM DIRECTORY -

We will like to welcome the following companies from our AM community to our online platform [NAMIC AM Directory](#). [Contact us](#) if you are keen to be part of our AM network.



WHAT'S IN FOR 2021?

- EVENTS -



The AM industry has been hit by unprecedented challenges this year. Adaptability is the new norm. Here's to a brighter 2021!

AM Careers@SG Info-Sharing Session

We will be conducting an information sharing session on our new job portal and how to go about exploring new opportunities and talents in the AM Industry. Join us!

Date: 12 January 2021

Time: 04.00pm - 05.00pm SGT

NAMIC Webinars: Identifying and Mitigating Intellectual Properties (IP) Risks within Industrial 3D Printing.

A key feature of 3D printing is its digital nature in enabling direct digital manufacturing, where users convert the digital CAD files to 3D print products. For spare parts using 3D

printing, what are the considerations that enterprises need to take in order to protect their digital files and avoid intellectual property (IP) infringement? In this webinar, IP and 3D printing experts will dive deep into these topics.

Date: 21 January 2021

Time: 03.00pm - 04.30pm SGT

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