## **Meet the eBeamers**

Hayashi-san has worked on eBeam technologies for 35 years

- Hayashi-san installed the first MEBES system, #14, at DNP - shown in the picture to the right.
- Then he installed another 8 systems after that!
- Hayashi-san spent two years in total in the US working with ETEC while learning the language, technologies and building human networks that would last his entire career.



The eBeam Initiative provides education on new eBeam technologies that reduce mask cost and improve quality

- Hayashi-san and DNP are founding members.
- Next time you see Hayashi-san, ask him how eBeam technology will be extended to advanced nodes using immersion lithography.
- "eBeam technologies are used for advanced mask making and gain the possibility for wafer writing with multiple beam technologies and complimentary lithography. eBeam technology is a promising candidate for inspection in the future."





Dai Nippon Printing



Hayashi-san grew up near the Pacific in Japan and studied at Tokyo Institute of Technologies with many interests.

- Hayashi-san has a Canon Cinema EOS to take short movies for Photomask Japan entertainment.
- This year he got two quadcopters with HD cameras to extend the filming capability from the air as shown in the picture to the left at SPIE.
- He loves to visit airplane museums world wide, especially fighter aircraft.

## Fan of Cinema Worldwide

- He supports Japanese cinema, small and very old, with digital presentation systems.
- In return, Hayashi-san has earned an annual cinema pass.
- Hayashi-san seeks out old cinemas on his travels like the one in the picture to the left in Japan but also places like Hawaii.

## Naoya Hayashi DNP Fellow



## Hayashi-san's interests include fencing

- He fenced during high school and at the Tokyo Institute.
- Hayashi-san was part of the fencing team for the National Athletic Meet in Japan.
- He returned to the Institute two years ago to fence with the current team, pictured to the left.