

Martin Lee

11124 Kingston Pike, Suite 119-358

Knoxville, TN USA

Phone: +1 408 898 4095 (+cell)

Email: martinlee@usstepper.com

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OBJECTIVE:

Mechanical, Electrical, or Optical, consulting work

EXPERIENCE:

Consultant and Business Founder: 1984 to Recent

Nikon Research: (Wafer Stepper/Scanner development, [Example patent US6683433]),

Multibeam Systems (see patent US6355994).

EDC Biosystems: (Mfg of Accord cleaning machines for disks and disk read/write heads, [my role was: electronics and operating system development])

Interloop Corporation: Founded and setup company to provided a machine control system for the Accord cleaning machines, see above.

Semifusion Corporation: Founded and setup company to provide machine control hardware to Ultratech Stepper Corporation.

Ultratech Corporation: VP (1974 to 1984), Consulting (1984 to ~1992)

1. Engineering support for an IC Mask Contact Printer (an existing product).
2. Develop and support an IC Mask Title Printer.
3. Develop and support a Photometer – Used for adjusting the illumination intensity, and uniformity of item (1 and 2).
4. Wafer Stepper – Used for direct writing of IC patterns on a wafer (Patent: US4444492). Tasks included:
 - Design a Wafer Stepper, find a customer, and setup production.
 - Develop and implement an inventory system for the Ultratech wafer stepper production.
 - Develop lens assembly and tests, hardware and documentation.
 - Design the wafer stage assembly and tests, hardware and documentation.
 - Design and write the machine's operating program, the user interface, and the reticle manager program.
 - Develop the machine's electronics, also their electronics assemblies and electronics tests, hardware and documentation.
 - Develop the production line for the prior item. This was done by starting an outside company, and setting it up as an independent vendor (Semifusion Corporation).
 - Design and build the projected image to wafer image alignment system.
 - Setup the final machine assembly tests, and machine to machine lens distortion tests.

Education:

UC Berkeley BSEE (June 1971)

Patents:

A selection of patents can be found at: www.USStepper.com

Awards:

SEMI Award North America for the invention of the One-to-one wafer stepper (1988)

Thank you for your consideration.