



EUNSUK KO

MAJOR DEPT Engineering Physics
DEGREE PH. D
ADVISOR Prof. Noah Hershkowitz
RESEARCH AREA Plasma Etching for microelectronics
GRADUATION 2003

KEY WORDS

Helicon Plasma, Metal etching, Deep Silicon etching, Lithography, LAICP, Control systems, Matching network, SEM, Visual C++, Matlab

GOALS

The research and development of plasma processing technologies and quality control

INTERESTS

Large Area Inductively Coupled Plasma (LAICP)
High density uniform plasma
High density, Low pressure etching for microelectronics
Metal etching, Deep Silicon etching (MEMS), Nano structure etching
Plasma diagnostics
Controls systems

CONFERENCE TALKS/POSTERS

- Eunsuk Ko, Jasmine Machima “Helicon wave source plasma etching (Metal etching)”, C-PAM Annual meeting, 2000, Poster presentation
- B-W Koo, E-S Ko, N. Hershkowitz, “Helicon plasma etching”, C-PAM Annual meeting, 1999, Poster presentation
- Eunsuk Ko, L. Hellouin, R. D. Lorenz, “Radial force estimation and bearing diagnostics in induction machines”, WEMPEC Annual meeting, 1998, Poster presentation

Eunsuk Ko (continued)

VISA STATUS Permanent Resident

ADDRESS

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EDUCATION

5/03	Ph.D.(expected) University of Wisconsin-Madison, Engineering Physics
5/01	MS University of Wisconsin-Madison, Engineering Physics
8/99	MS University of Wisconsin-Madison, Mechanical Engineering
8/93	BS Yonsei University, Physics

WORK EXPERIENCE

6/99 – present	University of Wisconsin-Madison, College of Engineering Research Assistant – Center for Plasma Aided Manufacturing - Large Area Inductively Coupled Plasma (LAICP) - High density uniform plasma - Metal etching: Titanium, Tungsten - Deep Silicon Etching (MEMS), Nano structure etching in high density - Helicon wave source plasma - Matching network - SEM - Lithography, Vacuum Coating and Etching
8/98 – 5/99	Student Help – Center for Plasma Aided Manufacturing
1/90 – 4/92	Korean Army (Military service)

Eunsuk Ko (continued)

LANGUAGES

English, Korean

ACTIVITIES AND AFFILIATIONS

3/97 - present Conductor of Church Choir (Korean Presbyterian Church
of Madison)

SKILLS

SEM, Lithography, Matlab, Visual C++