

**FELIPE D. VINLUAN, JR.**

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**KEY QUALIFICATIONS**

- Advanced degrees in engineering (Ph.D and M.Sc.). Former Postdoctoral Fellow at Korea University, Seoul and Research Fellow at Tokyo Institute of Technology and Mie University, Japan.
- Experience in teaching Manufacturing Engineering Tech using Amatrol CPT, FANUC CERT, CNC LMV-400, PLC-Rockwell CCW curricula. Use of associated laboratory equipment such as FANUC LR Mate and Dobot robotic arms, Micro820 PLC, electrical, pneumatic, mechanical and precision tools trainers. Familiarity with different platforms for instructional robotics. Taught engineering in universities and science & math in secondary schools.
- Experience in engineering research and industry assistance projects. Led the development of various technologies, some have been commercialized, patented and garnered awards in technology competitions.

**CERTIFICATIONS / LICENSES / TECHNICAL TRAININGS**

Machining Training Course – FANUC Certified Setup Programming and Machining Course. MSSC CPT Certification; Certified FANUC CERT Instructor; OSHA; Teacher certification in Robotics, Computer Science, Mathematics and Science.

**PROFESSIONAL EXPERIENCE**

**August 2018 – to date, Alief Center for Advanced Career, 12160 Richmond Ave, Houston, TX 77082**

**Instructor - Manufacturing Engineering / Industrial Robotics**

- Teaches Manufacturing Engineering Tech using Amatrol CPT, FANUC CERT, PLC-Rockwell CCW curricula
- Use of associated laboratory equipment such as FANUC and Dobot robotic arms, Micro820 PLC, electrical, pneumatic, mechanical and precision tools trainers.

**August 2015-July 2018. Elsik High School, Alief ISD. 12601 High Star Dr, Houston, TX 77072**  
**Teacher – Robotics & Computer Science**

- Taught Robotics and Computer Science (used GoPiGo-Raspberry Pi, Vex and Lego platforms; Python, ROBOTC and Java languages)
- Wrote grant request for grants for Toshiba America Foundation and AE Foundation. Grant money was spent for robotics and computer science instructional needs.

**August 2014- July 2015. Harmony School of Science – High School 13522 W. Airport Blvd. Sugarland, TX 77478**

**Teacher – Computer Programming**

- Taught computer programming (Java & Python) and technology applications.

- Robotics mentor (Vex and Lego) teaching ROBOTC and NXT programming.

**August 2007 – July 2014 Royal ISD (High School Campus), Pattison, TX 77466**

**Teacher – Math & Science**

- Taught Mathematics (Geometry, Math Models & Algebra) and Science (Physics, Chemistry & IPC)
- Served as mentor to robotics teams. Tutored programming and basic automation.

**Sept. 2002 – July 2007\_ Presidio ISD (High School Campus). Presidio, TX 79845**

**Teacher - Science**

- Taught science subjects (Physics, Chemistry & IPC)

**Feb.1989 to Aug. 2002 Industrial Technology Development Institute, DOST, M. Manila, Philippines.**

**Scientist/Division Chief - Fuels and Energy Division**

- Conducted and implemented R & D, industry assistance and technology dissemination projects. Managed 20+ engineers, chemists and technicians
- Led the development of various technologies (gasifier-combustor, co-production of energy and activated carbon, fast-drying, etc.) some have been commercialized, patented and won awards in technology competitions.
- Co-Project Leader of Japan ENAA-ITDI Joint Project on Fluidized-Bed Gasification.

**June 1992 – March 2002 Technological University of the Philippines, Manila, Philippines.**

**Professorial Lecturer - Engineering**

- Taught courses in engineering and research.
- Conducted lectures and supervised students in their laboratory and research works. Served as adviser or panel member to thesis students.

**Jan.1996 – March\_2000 De La Salle University, Manila, Philippines.**

**Associate Professorial Lecturer - Engineering**

- Taught classes in engineering, research and mathematics.
- Work included conducting lectures and supervising students in their laboratory

**April 1981 – Jan. 1989 University of Southern Mindanao, Kabacan, Cotabato, Philippines**

**Associate Professor - Engineering**

- Taught engineering classes. Supervised students on their laboratory and research works. Conducted research at the university research center.

## **E D U C A T I O N**

- Postdoctoral Fellow, Korea University (Mechanical Engg Dept.), Seoul, Korea
- Ph. D. (Energy Engineering), University of the Philippines, Quezon City Philippines
- M. Sc. (Ag. Engineering) University of the Philippines at Los Banos, Philippines
- B. Sc. (Ag. Engineering) University of Southern Mindanao, Cotabato, Philippines

### **PREVIOUS INTERNATIONAL ASSIGNMENTS / SEMINARS / TRAININGS**

Had lived/visited 17 countries as postdoctoral fellow, exchange scientist, consultant, resource person, team member in joint research projects and participant/paper presenter in workshops and conferences.

### **HONORS & AWARDS**

Received honors and awards in recognition of my work. The most notable are:

- Gold Medal from UN-World Intellectual Property Organization (WIPO)
- Presidential Award for Outstanding Public Service given at Malacanang, Manila
- Outstanding Research Award, National Science and Tech Week, Manila.

### **PUBLICATIONS/PAPERS PRESENTED/MONOGRAPHS/RESEARCH REPORTS**

Authored/co-authored several technical & scientific papers and research reports that were published in technology/scientific journals and conference proceedings.

**Felipe Vinluan**