BEN SHEN DENG

Control and Optimization Engineer

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SUMMARY

Control engineer with the ability to solve complex engineering and process problems. Currently is seeking a job position of research engineer.

STRENGTHS

Teamwork & Communication
Strong team collaboration skills. Work closely with team members to achieve engineering goals.

Research
Implementing and testing algorithms.

Persistence & Hardworking
The ability to work under pressure.

Organization
Capable of multi-tasking and have he self-drive to get things done on schedule.
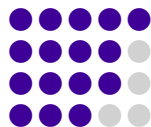
SKILLS

Python   Matlab   Linux

LANGUAGES

Portuguese ●●●●●
English ●●●●○
Chinese ●●●●○
Spanish ●●●○○

CERTIFICATIONS

- **TOEIC**, Nov. 2019
  score: 895 (List: 485 / Read: 410)

HOBBIES

Workout   Chess   Travelling

PUBLICATIONS

https://scholar.google.com/citations?user=6HUHs3cAAAAJ&hl=en

EDUCATION

B.S. in Control and Automation
Centro Federal de Educação Tecnológica Celso Suckow da Fonseca

📅 Fev 2006 – Dec 2010   ● Rio de Janeiro, Brazil

M.S. in Automation and Control (GPA 4.0)
National Taiwan University of Science and Technology (NTUST)

📅 Sept 2012 – Jul 2014   ● Taipei, Taiwan

- Thesis: Path Planning Analysis of a 6-DOF Serial Manipulator based on PID and Sliding Mode Controllers.
- Emphasis on laser and robotics.

Ph.D. in Automation and Control (GPA 4.0)
National Taiwan University of Science and Technology (NTUST)

📅 Sept 2014 – June 2020   ● Taipei, Taiwan

- Dissertation: Distributed Optimization of Large-scale Nonlinear Circuits using the Harmonic Balance Method.
- Concentration in Control Theory and Optimization Algorithms for Large-scale applications.

EXPERIENCE

Electrical Engineer Intern
Centro de Pesquisas de Energia Elétrica (CEPEL)

📅 April 2008 – April 2010   ● Rio de Janeiro, Brazil

- Worked in a team environment to design a preventative maintenance procedure for power transformers.

Control System Engineer Intern
IntelligenX

📅 May 2020 – June 2020   ● Linkou, Taiwan

- Assisted on the development of optimal camera placement for automated optical inspection.

Control System Engineer
Taiwan Innovative Space (TiSpace)

📅 October 2020 – Present   ● Zhunan, Taiwan

- Role consists in supporting the early development of a satellite system for communication satellite with a focus on the preparation of documents and procedures for the components manufacturing. Assist in the satellite project requirements, mission planning, review budgets, review specifications, and test procedures including environmental tests.
- Developed algorithms and test platforms for attitude determination and control system. Designed ADCS components (sun sensor, star tracker, and magnetic torquers).
- Designed solar array, role includes cover-interconnect-cell, honeycomb sandwich panel, and deployment system.