

## Jad Raydan

✉ [jad.raydan@cedworkforce.com](mailto:jad.raydan@cedworkforce.com)

### Electrical and Computer Engineer

Goal focused and dedicated Electrical and Computer Engineer working at Continuing Education & Development, Inc. Excel at acquiring knowledge in sustainable development, technology, electrical systems, and software. Actively contributing to the development of National Electrical Code for CEDworkforce.

## Education

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**Master of Science in Engineering Management** 08/2022 – Present  
**American University of Beirut (AUB) | Beirut, Lebanon**

- Awarded Graduate Fellowship for Master's Studies, GPA: 4.0/4.0 (High Distinction).
- Field(s) of study: Industrial and Operations Engineering.

**Bachelor of Engineering in Electrical and Computer Engineering (ECE)** 08/2017 – 05/2022  
**American University of Beirut (AUB) | Beirut, Lebanon**

- Awarded USAID Full Scholarship for Undergraduate's Studies, GPA: 3.65/4.0 (Distinction)
- Field(s) of study: Electrical and Software Engineering.

**2023 National Electrical Code (NEC) Certificate | TPC Training Company** 12/2024

- Successfully completed an online live training on the 2023 National Electrical Code (NEC) conducted by TPC Training Company, earning a certificate of completion.
- Acquired comprehensive knowledge of the latest updates, additions, and changes introduced in the 2023 NEC.
- Gained practical experience by applying key articles and tables from the NEC to solve example problems and exercises.
- Actively contributed to the development of the NEC Code course for CEDworkforce, including recent efforts to update the content in alignment with the 2023 NEC standards.

## Professional Work Experience

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**Electrical Engineer | Continuing Education & Development, Inc.**

*New Jersey, USA*

06/2024 – Present

- Working as an engineer, to develop interactive courses for various engineering topics which include several components like PPT presentations, outlines, and quizzes, provided for professional engineers in the United States and Canada.
- Contributing to the analysis and research of papers/documents from various ministries, U.S. departments (such as Electrical, Energy and Transportation) governmental agencies, and the U.S. army.
- Assisting with other related continuing education programs, including development of trades, online courses, video presentations and live webinars.

**Teaching Assistant | ECE Department & Industrial Engineering Department, AUB**

*Beirut, Lebanon*

08/2022 – Present

- Assisted undergraduate and graduate students in electrical and industrial engineering course materials by giving Q&A sessions and holding weekly office hours.

- Graded final exams, midterm exams, and assignments for undergraduate and graduate students in the industrial engineering department.

#### **Research Assistant | ECE Department & Industrial Engineering Department, AUB**

*Beirut, Lebanon*

**08/2022 – Present**

- Conducted a research thesis with Prof. Nabil Nehme, evaluating the economic integration of electric bikes into sustainable urban cities, an emerging and underexplored area in urban planning and transportation. The results projected that the E-bike market will reach around 75 million units by 2030, with a compound annual growth rate (CAGR) of about 5.2%.
- Worked on a final-year project with Prof. Ali El Hajj to create a student resource portal for AUB. The portal enhances the student experience by providing centralized access to AUB tools, an intuitive campus map, and a user-friendly chat platform for AUB students. A collaborative and automated recommender system was successfully developed for online course selection and recommendations.
- Contributed to multiple electrical, software, industrial, and management projects with professors in the Maroun Semaan Faculty of Engineering and Architecture at AUB.

#### **Private Tutor | Electrical and Industrial Engineering tutor | Beirut, Lebanon **08/2022 – 05/2024****

- Assisted AUB graduate and undergraduate students in computer, industrial, and management courses.
- Volunteered with the UNICEF club at AUB to assist in teaching refugees in mathematics and sciences.

### **Internships**

#### **Software Engineer | Areeba**

*Downtown, Lebanon*

**06/2023 – 08/2023**

- Developed well-tested and efficient code using Java programming language, Java Spring Boot, and Java frameworks to enable banks, fintechs, and businesses to enter the digital payment space by providing smart payment solutions and robust processing capabilities.

#### **Electrical & Network Engineer | Crystal Networks**

*Downtown, Lebanon*

**07/2021 – 08/2021**

- Assisted in client installations, customer premises equipment configuration, and internet protocol television (IPTV) setup. Addressed customer complaints using company services and networking tools to ensure efficient problem resolution.

#### **IT Telecommunications Engineer | Middle East Airlines**

*Airport, Lebanon*

**05/2021 – 07/2021**

- Contributed to networking, cybersecurity, telecom, software, and IT systems. Assisted with network topology design, utilized firewalls and next-generation firewalls (NG firewalls), implemented web and mail filters, and supported the operations section of the airport.

### **Volunteering and Extracurricular Activities**

#### **Civil Defence**

*Beqaa – Lebanon*

**05/2018 – 08/2020**

- Worked as a firefighter in the Beqaa area, coordinating emergency response efforts during disasters, wildfires, and emergencies. Additionally, I organized and participated in campaigns to educate and train communities on emergency preparedness.

#### **Community Service Project, USAID-AUB**

*Hasbaya, Lebanon*

**05/2018 - 05/2020**

- The over-cultivation of olive trees in Hasbaya has led to significant challenges in olive oil production. To address this, a team of 5 from AUB, including myself, researched and consulted mushroom cultivation experts to introduce mushroom farming as a sustainable alternative. We trained local

farmers in cultivation techniques, helping them establish a diversified income source. A \$3,500 grant from USAID supported the project.

#### **Academic Student Advisor | AUB**

*Beirut, Lebanon*

**05/2018 – 05/2022**

- Volunteered with USAID to guide newly coming scholarship students at AUB who were considering STEM majors within the USAID scholarship.

#### **Public School Presentation Advisor**

*Lebanon*

**03/2018 – 03/2022**

- Represented the USAID scholarship program as a guest speaker, delivering presentations in public schools across Lebanon.

#### **Honours and Awards**

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- Accepted Thesis Abstract for Oral Presentation: Evaluation of E-Bikes: Paving the Way for Sustainable Urban Mobility in Smart | IISE Annual Conference & Expo, Atlanta, Georgia **12/2024**
- The Graduate Fellowship and Assistantship Program (GFAP) | AUB **08/2022**
- Full Undergraduate Scholarship (USAID) | AUB **08/2017 – 05/2022**
- Graduated with Distinction | AUB **08/2017 – 05/2022**
- MSFEA Dean's Honor List **08/2020 – 05/2022**

#### **International Participation Competition**

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##### **Quanta International Math Competition | City Montessori School, Lucknow, India **11/2016****

- Achieved first rank in mathematics among all participating high schools in Lebanon. Represented Lebanon in the International Quanta 2017 competition held in India, competing against participants from 72 countries.

#### **Skills**

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**Digital Skills:** Pspice, Python, C++, Java, MySQL, NoSQL, PostgreSQL databases, HTML, CSS, Javascript, MS Office, Algorithms, Data Structure, Pandas, Django, React/React Native, @Risk, optimization, Linear programming, operations management.

**Languages:** Arabic (mother tongue), English (C1, IELTS), French (A1).

# Jad Raydan

Has completed 16 classroom hours in

## 2023 National Electrical Code®

Completed on

December 17 2024



*John D. Comly*

John D. Comly  
Chief Executive Officer  
TPC Training

1-877-978-7246 or [www.tpctraining.com](http://www.tpctraining.com)