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## Doğukan LELOĞLU

MSc. Physics Engineer - Senior Test Engineer

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### Contact Information:

- **Address:** Beşikkaya Mah. 2000.Street No:10/14, 06360 Altındağ, ANKARA
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  - **GitHub:** [//github.com/Dogukanphysic](https://github.com/Dogukanphysic)
  - **Kaggle:** [//www.kaggle.com/doukanlelolu](https://www.kaggle.com/doukanlelolu)
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### Personal Information:

- **Date and Place of Birth:** 02.02.1994, Ankara
  - **Marital Status:** Single
  - **Military Service Status:** Completed (Short-Term / 6 Months)
  - **Driver's License:** Yes (Class B)
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### Education:

- **Master's Degree in Physics Engineering:** Ankara University, Graduate School of Natural Sciences (Thesis) (2019-2022)
  - Thesis Title: Investigation of the magnetic properties of two dimensional Van der Waals heterostructures with first principles methods
  - Relevant Coursework: Advanced Software Engineering, Testing Methodologies, Quality Assurance Practices.
- **Bachelor's Degree in Physics Engineering:** Ankara University, Faculty of Engineering (2011-2016)
  - Relevant Projects: Developed a software tool for simulating physical experiments.
- **High School:** Ali Naili Erdem Anatolian High School, Science (2007-2011)

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## Work Experience:

- **Vodafone via Kafein Software Services Inc. – Senior Test Engineer (02/2023 - Present):**
  - **Responsibilities:**
    - Lead the testing efforts for the Vodafone Polaris Project, facilitating the successful migration of the legacy invoicing system to a new, robust platform.
    - Design and execute comprehensive test plans, including functional, regression, and performance testing, utilizing both manual and automated testing methodologies.
    - Create detailed test cases and scripts, ensuring all requirements are validated and met.
    - Collaborate with developers and product owners in an Agile environment to gather requirements, provide feedback, and address concerns.
    - Utilize tools such as JIRA for tracking defects and managing the testing lifecycle effectively.
    - Contribute to the continual improvement of testing processes and practices by identifying and implementing best practices.
- **Turk Telekom via Ericsson Research and Development and IT Services Inc. – IT/Test Engineer (05/2021 - 01/2023):**
  - **Responsibilities:**
    - Conducted thorough end-to-end testing of software applications, ensuring high standards of quality and performance.
    - Collaborated with cross-functional teams to define requirements, analyze system changes, and develop effective test strategies.
    - Developed automated test scripts using Selenium and integrated testing into CI/CD pipelines to enhance workflow efficiency.
    - Monitored application performance, analyzing data to identify areas for improvement and provide actionable insights.
    - Documented testing processes, outcomes, and defects, maintaining comprehensive records for audit and review.
- **TÜBİTAK 1001 Project – Researcher/Graduate Scholarship Holder (09/2019 - 01/2022):**

- Conducted research on the electrical and magnetic properties of two-dimensional materials using density functional theory, contributing valuable insights published in peer-reviewed journals.
  - **Çankaya Patent Brand and Consulting Ltd.** – Patent Engineer (02/2019 - 09/2019):
    - Evaluated patent applications, performed prior art searches, and analyzed the viability of inventions, ensuring compliance with legal standards.
  - **Dekra Quality Control Services Inc.** – Non-Destructive Testing Engineer (11/2016 - 01/2017):
    - Executed ultrasonic testing to evaluate weld quality in critical infrastructure projects, ensuring safety and compliance with engineering standards.
  - **Ankara University, Faculty of Engineering** – Intern (06/2015 - 06/2016):
    - Assisted in laboratory experiments, data collection, and analysis for various physics projects, gaining practical experience in experimental physics.
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#### **Internship:**

- **Ankara Dr. Abdurrahman Yurtaslan Oncology Education and Research Hospital** – Radiation Therapy Physicist (06/2014 - 08/2014):
    - Ensured the accuracy of radiotherapy treatment plans and aided in the implementation of safety protocols for patient treatment.
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#### **Patents:**

- **Telekomünikasyon Arabuluculuk Süreçlerinde Yapay Zekâ Destekli Otonom Kök Neden Analizi ve Anomali Giderme Yöntemi ve Buna İlişkin Bir Sistem-Buluş Sahibi**
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#### **Certifications:**

- **ISTQB Certified Tester Foundation Level** – International Software Testing Qualifications Board (Pending)
- **4th Physics Workshop** – Istanbul University (02/2014)
- **Occupational Health and Safety Practices** – Chamber of Physicists (05/2014)
- **Python Programming, OOP, PyQt, HTML5, CSS3, SQL, Django** – T.C. MEB Private Vector Informatics Course (05/2019)
- **Microsoft ASP.NET and C# Programming** – T.C. MEB Private Vector Informatics Course (08/2019)

- **Programmable Logic Controllers (PLC)** – BELTEK – Gazi University (02/2015)
- **Data Science Training** – Various Courses from University of Michigan and Duke University (2020)
- **Ultrasonic Testing Level II** – KACHESTVO (12/2016)
- **Approval Ultrasonic Testing Level II** – Institut Za Verilstvo (RTPO) (12/2016)
- **Fundamentals of International Patent Classification (IPC) and National Patent Classification Systems** – Turkish Patent – Intellectual Property Academy (03/2019)
- **25th Condensed Matter Physics Meeting** – Hacettepe University (12/2019)
- **Data Science Math Skills** – Duke University (07/2020)
- **Algorithmic Toolbox** – UC San Diego – Higher School of Economics National Research University (07/2020)
- **COVID-19: Reflections and Updates** – Harvard Medical School (01/2021)
- **Semiconductor Physics** – University of Colorado (01/2021)
- **Quantum Optics 2 - Two Photons and More** – École Polytechnique (01/2021)
- **Quantum Optics 1 – Single Photons** – École Polytechnique (02/2021)
- **Introduction to Data Science in Python** – University of Michigan (07/2020)
- **Applied Plotting, Charting & Data Representation in Python** – University of Michigan (07/2020)
- **Solar Energy Basics and System Design** – The State University of New York (02/2021)
- **Density Functional Theory** – École Polytechnique (03/2021)
- **Solar Energy System Design** – The State University of New York (02/2021)
- **Physics of Silicon Solar Cells** – École Polytechnique (02/2021)
- **Photovoltaic Solar Energy** – École Polytechnique (02/2021)
- **Electronic Properties of Two-Dimensional BAs/CrP Heterostructure** – ISPEC Institute (08/2021)
- **Electronic Properties of Two-Dimensional Bsb/CrP Heterostructure** – 26th Condensed Matter Physics Meeting (12/2021)

#### **Seminars, Trainings, and Presentations:**

- **Gravitational Waves** – Ankara University, Bachelor's Thesis Presentation (13.05.2016, 30 minutes)

- **Electronic Structure of Two-Dimensional BX(X=N,P,As and Sb) Alloys** – Ankara University, Master’s Seminar (20.05.2020, 30 minutes)
- **Electronic Properties of Two-Dimensional BAs/CrP Heterostructure** – ISPEC Institute, 1st International Physics Conference Presentation (17.08.2021, 15 minutes)
- **Electronic Properties of Two-Dimensional Bsb/CrP Heterostructure** – Gazi University, 26th Condensed Matter Physics Meeting Poster Presentation (26.12.2021, 120 minutes)
- **Investigation of Magnetic Properties of Two-Dimensional Van Der Waals Heterostructures via First-Principles Methods** – Ankara University, Master’s Thesis Defense Presentation (27.12.2021, 120 minutes)

### Projects:

#### 1. Ankara University Scientific Research Project:

- **Project Name:** Determination of the Mechanical and Optoelectronic Properties of Next-Generation Two-Dimensional Ga<sub>2</sub>XY (X/Y=S, Se, Te) Materials and Heterostructures with Semiconductors.

#### 2. TÜBİTAK 1001 Project:

- **Project Name:** Quantum Magnetism in Two-Dimensional Structures: Investigation of Magnetic Properties of Two-Dimensional Ferromagnets Using Density Functional Theory. (Project No: 119F361)

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### Skills:

#### • Testing Tools:

- Proficient in Selenium, JUnit, TestNG, Postman, SoapUI, and other automation testing tools.

#### • Programming Languages:

- Strong knowledge of Python, C#, Java, and Fortran, with the ability to write efficient code for automated tests.

#### • Test Management Tools:

- Experienced in using JIRA, TestRail, and similar platforms for test case management and defect tracking.

#### • Methodologies:

- Agile/Scrum methodologies with a focus on delivering high-quality software through iterative testing and development cycles.

- **Software Development:**

- Understanding of software development life cycle (SDLC) processes, with experience in CI/CD practices to streamline code integration and deployment.

- **Analytical Skills:**

- Strong analytical and problem-solving skills, with the ability to dissect complex issues and develop effective solutions.
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### Languages:

- **English:**

- Reading: Good
- Writing: Good
- Understanding: Good

- **German:**

- Reading: Beginner
  - Writing: Beginner
  - Understanding: Beginner
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### References:

- **Assoc. Prof. Aybey MOĞULKOÇ**, Department of Physics, Ankara University, Phone: 0532 573 05 03
  - **Ayfer BERKKAM**, General Manager, Çankaya Patent Brand & Consulting Ltd., Phone: 0553 636 16 89
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### Professional Summary:

Enthusiastic and detail-oriented Software Test Engineer with proven experience in effectively managing the testing lifecycle of software applications. Skilled in developing comprehensive test plans, executing functional and regression testing, and implementing automated testing solutions to improve software quality. Adept at collaborating with cross-functional teams to define requirements and deliver innovative testing strategies that enhance efficiency and reliability. Committed to continuous learning and improvement in software testing practices.