

Application: 5125

Quantum Odyssey

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee's employer.

Name of Organization/Company

Quarks Interactive

Additional Contacts

I do not wish to list additional contacts

Page: Entry Information

Entry Title

Quantum Odyssey

Category

J02. Educational or Research Institution of the Year - Educational Technology

Educational or Research Institution of the Year Submission Format

Written Answers

a. Briefly describe the nominated non-profit organization's history and past performance (up to 200 words). Required

Quarks Interactive is a quantum computing R&D start-up generated 4 years ago within a PhD program at Durham University (Theoretical Physics, the topic of Hybrid Quantum Computing).

Quarks Interactive has created an accelerated e-learning tool in quantum computing Quantum Odyssey | <https://www.quarksinteractive.com/>

The goal of Quarks Interactive is to reduce the GAP of 60% specialists in the QC market, in an accelerated, interactive and user-friendly way through an EduGame.

Quarks Interactive's Vision and Philosophy can be accessed HERE | <https://www.youtube.com/@quarksinteractive7727>

Funds | 400 K euros

Users | 4000

Area | global

Awards | 1st place Patriot Fest (ind. defense of Romania) | finalist R&D Program of the Year start-upTech Romania |

Nominations | EU DigitalSkills | Entrepreneurship World Cup - Riyadh

Partners | IBM | Norm Korea | Digiq.eu | OctagonHUB |

Customers | National Institute for R&D of Isotopic and Molecular Technologies | Technical University of Cluj | University of Bucharest | Magurele Science Parck

b. Outline the nominated non-profit organization's achievements since the beginning of 2022 that you wish to bring to the judges' attention (up to 250 words). Required

Quantum Odyssey is a Fundamental QC e-learning tool with which you can progress from 0 QC knowledge to master's level in 30 days.

The content is scientifically based and translated into an easily accessible, engaging, multi-level game interface with a global ranking.

With its help, quantum computing skills can be acquired starting with the age of 14

Quantum Odyssey differentiators are:

1. Patented Mathematical Invention
2. Universal Accessibility: QO requires absolutely no background in the sciences
3. Advanced Editor Functionality: Users can perform far more complex tasks than are possible today on a quantum computer
4. The first fully visual, no-code platform users with no programming experience in quantum APIs can create proof-of-concept algorithms. These algorithms, at the push of a button, are instantly translated into quantum hardware-ready code (eg openQASM and Qiskit).
5. Innovative Education: QO comes with a fully immersive, audio-guided training space to learn all about building quantum algorithms, 12+ learning modules, 340 puzzle-like math problems, and growing.
6. Repository of Optimized Algorithms: The QO backend is an ever-growing repository of highly optimized quantum algorithms. Users of the software solve interesting mathematical problems as they advance their learning and begin to come up with their own algorithm designs.

c. Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other institutions in the organization's field and/or to the organization's own past performance (up to 250 words). Required

1. Quantum Odyssey contribute to the goals of energy efficiency and inclusion

The project uses learning tools and online organizing platforms (eg Discord), so all our events can take place online.

The tool (online, in English), as well as the project communications and the free trainings offered the opportunity to all people to participate.

2. In the labor market there is a GAP of approx. 60% quantum computing specialists.

Quantum Odyssey facilitates launching into a quantum career in the simplest way.

3. Specialists in Quantum Computing can contribute to:

- faster resolution of administrative problems, public policies, solutions to problems in health, industry, the distribution chain, transport or complex solutions that rapidly develop science and technology.
- In the context of war, Quantum computing can generate new approaches and algorithms that could support innovative strategies in the field of defense and combat.
- Advanced analysis and complex simulations to support the development of more informed and effective military strategies.
- Optimizing logistics and decision-making in the tactical domain, with the ability to adapt resources to changing terrain.

d. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words). Optional

Website | <https://www.quarksinteractive.com>

GooglePlay | <https://play.google.com/store/apps/details?id=com.QuarksInteractive.QuantumOdyssey>

YouTube | Quarks Interactive | <https://www.youtube.com/@quarksinteractive7727>

LinkedIn | Quarks Interactive | <https://www.linkedin.com/company/quarks-interactive/>
Founder & Autor | <http://linkedin.com/in/laurentiu-nita-24b70796>

Discord | <https://discord.gg/KQmzYtVRrH>

Awards | PatriotFEST | <https://www.patriotfest.ro/en/#4>
R&D Program of the Year start-upTech Romania | <https://anis.ro/gala/gala-anis-2024/#prizes>

Press

<https://gtr.ukri.org/projects?ref=BB%2FT018666%2F1>

<https://scholar.google.com/citations?user=VcWnqFsAAAAJ&hl=en>

<https://tryengineering.org/game/quarks-interactive-quantum-odyssey/>

<https://ed.quantum.ieee.org/quantum-odyssey/>

<https://worldquantumday.org/events/quantumspeed/>

<https://worldquantumday.org/events/qrace/>

<https://curierulnational.ro/peste-100-de-cercetatori-studenti-si-antreprenori-au-participat-la-prima-editie-laser-valley-innovation-bootcamp/>

https://www.youtube.com/live/c-SOhzBi_hc?si=QLuOL2azNPGfPEs9

<https://stirileprotv.ro/stiri/likeit/ilikeit-fizica-cuantica-pe-intelesul-tutoror-jocul-realizat-de-doi-romani.html>

<https://start-up.ro/quarks-interactive-laurentiu-nita/>

<https://seedblink.com/ro/2020-11-26-interviu-cu-lauren%C8%9Biu-ni%C8%9B%C4%83-de-la-quarks-interactive>

<https://m.zf.ro/zf-it-generation/zf-it-generation-laurentiu-nita-fondator-quarks-interactive-19127017>

<https://www.economistul.ro/economia-viitorului/tech/quarks-interactive-primul-software-din-lume-realizat-independent-si-conectat-la-un-calculator-cuantic-41518/>

https://www.linkedin.com/posts/laurentiu-nita-24b70796_quantumodyssey-quantumcomputing-innovativeteaching-activity-7131242476341760001-XJIF?utm_source=share&utm_medium=member_ios

Webpage Link

<https://www.youtube.com/watch?v=kvHm0CGcQNo> (<https://www.youtube.com/watch?v=kvHm0CGcQNo>)

Would you like to add an additional webpage link?

Yes

Webpage Link 2

www.quarksinteractive.com (<http://www.quarksinteractive.com>)

Would you like to add an additional webpage link?

Yes

Webpage Link 3

<https://play.google.com/store/apps/details?id=com.QuarksInteractive.QuantumOdyssey> (<https://play.google.com/store/apps/details?id=com.QuarksInteractive.QuantumOdyssey>)

Would you like to add an additional webpage link?

Supporting Document

Download File (https://stevies-tech.secure-platform.com/file/68026/eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJtZWRRpYUlkiJo2ODAYNiwiYWxsY3dOb3RTaWduZWRRVcmwiOiJGYWxzZSIsImInbm9y451830688_770104728375108_442859817692625909_n.jpg)

Would you like to add an additional supporting document?

No

By your submission of this entry to The Stevie Awards, you verify that you have read and agreed to abide by the regulations, terms and conditions of the competition (<https://www.asia.stevieawards.com/rules-and-terms-conditions-competition>).

Terms and Conditions

I Agree