

# Jan Van Rensbergen



## Interests

- Kotlin software development
- Domain Driven Design
- Clean Code/Architecture
- Biking - Fitness - Music

## Contact

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📍 Bergstraat 39, 3200 Aarschot

## Personal

Nationality: Belgian Date of birth: 30.07.1982

🌐 janvanrensbergen

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## Physics & Engineering

Temporal Mechanics



Quantum Theory



Nuclear Physics



Mechanical Engineering



Electrical Engineering



Automotive Restoration



## Technology

Flux Capacitor Design



Time Machine Construction



Robotics



Computer Programming



## Other Skills

Creative Problem Solving

Scientific Communication

Workshop Safety

Mentoring Young Scientists

## ABOUT

A motivated senior software engineer helping companies big and small deliver working software supporting real use cases.

While striving for technical excellence, I get fired up about CQRS, clean - solid - code, clouds, CI/CD, observability and Kotlin.

But, above all: picking the right tool for the job.

## EDUCATION

### 1951 PhD in Physics

CALIFORNIA INSTITUTE OF TECHNOLOGY

📍 PASADENA, CA, USA

Dissertation: *"Theoretical Approaches to Temporal Displacement and Causality"*.

### 1943 BSc in Engineering

MIT

📍 CAMBRIDGE, MA, USA

Thesis: *"Practical Applications of High-Voltage Circuits in Experimental Physics"*.

## PROFESSIONAL EXPERIENCE

### 1955 – now Independent Inventor & Research Scientist

HILL VALLEY LABORATORY

📍 HILL VALLEY, CA, USA

- Invented the Flux Capacitor, enabling practical time travel.
- Designed and constructed the DeLorean Time Machine and related temporal devices.
- Conducted groundbreaking experiments in temporal mechanics and quantum theory.
- Provided scientific mentorship to aspiring inventors and students.
- Published theoretical work on paradoxes, causality, and energy transfer.

### 1960 – now Science Educator & Public Speaker

VARIOUS INSTITUTIONS

📍 USA & EUROPE

- Delivered lectures and demonstrations on physics, engineering, and the ethics of scientific discovery.
- Organized science fairs and educational outreach for young students.

## ACADEMIC EXPERIENCE

### 1985 Visiting Professor: Temporal Physics

HILL VALLEY UNIVERSITY

📍 HILL VALLEY, CA, USA

- Developed and taught courses on time travel theory and paradox management.
- Supervised student projects on experimental physics and invention.

### 1978 – 1984 Adjunct Lecturer: Quantum Theory and Paradoxes

CALIFORNIA INSTITUTE OF TECHNOLOGY

📍 PASADENA, CA, USA

- Lectured on advanced quantum mechanics and paradoxes in theoretical physics.
- Organized interdisciplinary seminars on causality and time.

### 1952 – 1955 Research Fellow: High-Energy Particle Physics

MIT

📍 CAMBRIDGE, MA, USA

- Conducted research on high-voltage circuits and early particle acceleration experiments.

## GRANTS AND AWARDS

### 1990 Lifetime Achievement in Innovation

INTERNATIONAL SOCIETY OF INVENTORS

📍 GENEVA, SWITZERLAND

Recognized for a lifetime of inventive contributions to science and engineering.

### 1986 Best Experimental Demonstration

WORLD SCIENCE CONGRESS

📍 LONDON, UK

Improvisation

Experimental Design

## Languages

Dutch	Native
<div><div></div><div></div><div></div><div></div><div></div></div>	
English	Native
<div><div></div><div></div><div></div><div></div><div></div></div>	
French	Basic
<div><div></div><div></div><div></div><div></div><div></div></div>	

Awarded for the live demonstration of the DeLorean Time Machine prototype.

1985 **Hill Valley Science Achievement Award**

HILL VALLEY SCIENCE SOCIETY

 HILL VALLEY, CA, USA

Awarded for outstanding contributions to science and innovation in the community.

TALKS

- 1991

**From DeLorean to Locomotive: Engineering Time Machines**

SOCIETY OF INVENTORS ANNUAL MEETING

Panelist on the evolution of time travel technology.

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SAN FRANCISCO, CA, USA
- 1986

**Paradoxes and Causality: Lessons from Time Travel**

WORLD SCIENCE CONGRESS

Invited talk on managing paradoxes and causality in theoretical physics.

📍

LONDON, UK
- 1985

**The Flux Capacitor: A New Era in Temporal Mechanics**

INTERNATIONAL PHYSICS SYMPOSIUM

Keynote on the invention and implications of the flux capacitor.

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GENEVA, SWITZERLAND

REFERENCES

- Marty McFly**

MUSICIAN & TIME TRAVELER

Long-term collaborator and field assistant in temporal experiments.  
Contact: [marty.mcfly@hillvalley.com](mailto:marty.mcfly@hillvalley.com)

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HILL VALLEY, CA, USA
- Clara Clayton**

SCIENCE EDUCATOR

Advisor on science communication and educational outreach.  
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