Curriculum Vitae

Personal details

Name: Vogel
First name: Wim
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Date of birth: 09-03-1953
Nationality: NL
Languages: Fluent in Dutch, good in English.
Status: Single.
Religion: Christian (see www.mate.nl/wvogel for further details).

Profile and specialisms

Designer, consultant, guard of field problems, applicator of circuits and components, maintainer of constant and good quality of delivered products.

- **Technology: RF (power) electronics, analog electronics, EMC, ESD and electrical safety.**
- **Quality: performing and guiding of audits, document management, approvals and markings, product life cycle management.**
- **Test and measurement: setup of measurement procedures, calibration procedures and labs, familiar with RF test equipment and high power RF transmitter applications.**
- **Application of components: finding the best possible solutions for the application of RF electronic components (IC's and peripheral circuits).**

Memberships

- **Nederlands Elektronica en Radio Genootschap (NERG).**
- **Nederlandse EMC/ESD Vereniging.**

Website:

www.mate.nl.

Experience

2007 - now **Application Engineer / RF Electronics and EMC Engineer**
Catena Radio Design, Son en Breugel.

Responsible for:

- **Design, simulation, optimization, layout and PCB design of semiconductor applications for RF IC's in car radio applications.**
- **Designing and optimizing peripheral circuits for car radio IC's.**
- **Test, measurement and verification of RF IC specifications.**
- **Reporting of problems and possible solutions for car radio tuner circuits.**
- **Solving EMC problems, support of Field Application Engineers.**

Achievements:

- **Found good adaptation circuits for passive and for active car antennas with**

very few peripheral components, realizing a frequency independent sensitivity for AM (LW, MW. SW up to 26.1 MHz) and for extended FM (76 – 108 MHz, 65 – 108 MHz as option), with and without FM transformer coupling.
- **Found a good solution for FM to MW intrusion (2nd order Intermodulation) problems, using only 4 peripheral components.**

2005 - 2006 **RF Electronics and EMC Engineer in transition.**

Responsible for:
- **Finding a new job after reorganization at Philips Medical Systems, Best.**

Achievements:
- **New job found at Catena Radio Design, Son en Breugel.**

2002 - 2004 **Maintenance and System Engineer**
Philips Medical Systems, Best

Responsible for:
- **Design, testing, modification and approval of products with respect to EMC, ESD and electrical safety standards.**
- **Solving obsolete component problems, product life cycle management.**
- **Solving disturbances of production problems, especially for cameras, controllers and RF SMPS in Medical equipment.**
- **Finding solutions to prevent production stops.**
- **Solving field complaints, support of Field Service Engineers.**

Achievements:
- **Maintaining a good and constant quality of the XTV-8 camera, 50% reduction in alignment time for this camera at the production.**
- **Several production stops prevented, found new sources for delivery of components becoming obsolete.**
- **Qualified for approval of medical equipment according to several EMC standards (on behalf of markings such as CE, FCC and VCCI), electrical safety and medical standards (EN60601-1).**

1998 - 2002 **Maintenance and System Engineer**
Technipower, Eindhoven, working for Philips Medical Systems, Best

Responsible for:
- **Writing a requirement specification and a verification specification for a new monitor for Medical application.**
- **Contribute to the design, testing, modification and approval of this monitor with respect to EMC, ESD, electrical and mechanical safety, maintaining good and constant picture quality.**
- **Represent Philips Medical Systems as customer of the supplier Data-Ray, testing and approving the first deliveries of the produced monitors.**
- **Solving obsolete component problems, product life cycle management.**
- **Solving disturbances of production problems, especially for cameras and controllers in Medical equipment.**
- **Finding solutions to prevent production stops.**
- **Solving field complaints.**

Achievements:
- **Successful introduction of the new monitors in Philips Medical Systems.**
- **Several production stops prevented, found new sources for delivery of components becoming obsolete.**

1988 – 1998 **Self-Supporting RF and Analog Electronics Engineer, Consultant, Teacher.**

Responsible for:

- **Consultancy for small and medium sized business**
- **Solving electronic problems and new design or redesign of electronic products.**
- **Some customers:**
  Herder BV (www.herder.nl) . Designing a new electromechanic construction for their mowing arms: a new electronic control system for the lift power of these arms.
  IMT BV (www.IMT.eu). Solving a field complaint about a solid state relay circuitry used in combination with high power electromagnets. Design of a new control circuit following customer specifications.
  Syntens (www.syntens.nl , formerly: Innovatiecentrum, Eindhoven): Working as consultant in Electronic Engineering, giving short specialized advise to customers of Syntens.
- **Education and examination.**
- **Working for several education institutes: PBNA Arnhem, SBK-Kenners van Kennis, Helmond.**
- **Giving education in the area of Industrial Automation and Electronic (Time discrete) Signal processing; also examination of candidates at the customer location.**
- **Customers: Rijksuniversiteit Leiden, Digital Nijmegen, Golfkartonfabriek Helmond and Coca-Cola Factories Ede.**
- **The Vereniging voor Elektrotechnisch Vakonderwijs, Nijkerk (Actually: Kenteq, www.kenteq.nl). Working as examinator for the course Technician Television and Radio.**

Achievements:

- **Good results booked at the consultancy, practically all customers satisfied.**
- **Much upgrade of personal competences at this time period.**

1979 – 1988 **System Engineer.**
Philips Consumer Electronics.

Responsible for:

- **Solving electronic problems and new design or redesign of electronic products (Color TV)**
- **EMC engineering, optimization of the design, following requirements by law and wanted requirements, responsible for low-cost applications due to large volume of production.**
- **Predevelopment of the RF part of a chip for a one-chip TV project at Philips Nat. Lab.**

Achievements:

- **Good results realized, all customers satisfied, several field complaints solved by customer service solutions, followed up by production solutions.**
- **Much upgrade of personal competences at this time period.**

1974 – 1979 **Student-Assistant (0.5 fte).**
Delft University of Technology.

Responsible for:

- **Practical education of students, up to Bachelor's degree level.**
- **Management of labs for students.**
- **Assisting the professor during lectures, giving demonstrations, etc.**

Achievements:

- **Good results realized, all students and professors satisfied.**

Education

1971 - 1979	**Delft University of Technology, Electronic Engineer, specialism Transmission of Information (Analog and RF Electronics). profile Telecommunications, diploma**
1965 - 1971	**HBS-B, diploma**

Courses

2004	**UL 2601 / IEC 60601 / CSA**
2004	**Isolation Diagrams**
1987	**Timediscrete Signalprocessing (Philips Nat. Lab.)**
1984	**Programming with Pascal (Teleac)**
1982	**Elektromagnetic Compatibility (Philips)**

Hobbies and interests

photography, music, building and modifying home electronic equipment and loudspeakers, HAM radio operator, building and modifying radios for DX reception, building and modifying radio transmitters.