

BASILE L. AGBA

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French · English · German (base)

IEEE member

Competences profile

Educational and teaching experience 6 years

- In charge of graduate and undergraduate courses & management of students projects

Propagation / Antennas / Wireless networks 4 years

- Propagation and channels modelling in fixed, mobile and Ad Hoc wireless networks
- New topology antenna design and integration of GIS databases in simulation tools

Scientific and technical projects management 4 years

- Projects management within a team and with external partners

Professional experience

Ecole de Technologie Supérieure, department of Electrical Engineering 2005

Postdoctoral Research associate (mentors: F. Gagnon and A. Kouki)

Research interests:

- Wireless Ad Hoc networks channels study (scenarios specification and mobility models, channels modelling of Ad Hoc wireless networks)

Institut de Recherche en Communications Optiques et Micro-ondes 2001-2005

Coordinator of WiFi network planning (2004-2005)

Research assistant (2001-2004)

Achievements:

- Achievement of a planning software for wireless broadband systems : LIBUS
- Elaboration of a global approach to improve the accuracy of coverage simulation tools
- Contribution in the deployment of French first 40 GHz LMDS system

CREAPE - Ingénierie, centre of technologies transfer, France 2001

Trainee

Achievements:

- In situ installation of LMDS network antennas & In situ DGPS localisation

Collège Louis-le-Grand, collegial teaching, Togo 1998-2000
Lycée Nyekanakpoe, collegial teaching, Togo 1998-2000

Teaching post of physics

Achievements:

- 25 % increase of success rate in physics course
- Installation of remedial course for students in school difficulty

Additional experience

Project in industry 2001-2002
COVIMAG, power electronics, France

Achievement:

- Magnetron design

Education

Ph D in high frequencies electronics and optoelectronics 2004
Equivalence of MRCI : Ph D in telecommunications
Institut de Recherche en Communications Optiques et Micro-onces, France

M.S. in high frequencies telecommunications and optics
Equivalence of MRCI : M.S. in telecommunications
Université de Limoges, France

B.S. in physics, industrial option 1998
Equivalence of MRCI : B.S. in physics
Université de Lomé, Togo

Additional Training

Economical management for engineers in industry 2002
Social and human management for engineers in industry 2002
Centre National des Arts et Métiers, France

Social law in industry 2002
Chambre de Commerce et d'Industrie, France

Technical Competences

- ✓ Radio communication simulation software
- ✓ Antennas analyse and design software (FDTD...)
- ✓ GIS database software (JLOOX, Arcview, MapInfo...)

Competences in informatics

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|-----------|-------------|-----------|
| ✓ Windows | ✓ MS Office | ✓ Fortran |
| ✓ Unix | ✓ Matlab | ✓ C |
| ✓ Linux | ✓ Pspice | ✓ Java |

Social implication

- Participation and section chairing of international conferences (USA, Chine, Italy, Portugal...)
- Fonder member of NGO « Mission des Volontaires Contre la Pauvreté », Togo
- President of students associations & Responsible of a youth department of Red - Cross, Togo

References (available upon request)