

# CURRICULUM VITAE

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Name of Staff :George P K **MATHERI**  
Profession :Transportation Engineer/Transport Economist  
Date of Birth :22 October 1966  
Years with Firm :  
Nationality :Kenyan

## Membership in Professional Societies:

*Member, Architectural Association of Kenya (2713), 2009*  
*Registered Consulting Engineer, Kenya Engineers Registration Board (E231), 2008*  
*Member, Institution of Engineers of Kenya (M2937), 2005*  
*Registered Engineer, Kenya Engineers Registration Board (A2030), 2002*

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## Key Qualifications:

- Transportation/Design Engineer with 23 years experience. Has wide working experience in Sub-Saharan Africa including Kenya, Uganda, Tanzania, Malawi, Ethiopia, Eritrea, Rwanda, Burundi and Mauritius.
- Extensive experience in training and program development, with 18 years experience as University lecturer/trainer in engineering and project management. Currently a training resource person for Institution of Engineers of Kenya (IEK)
- B.Sc. in Civil Engineering and M.Sc. in Transportation Engineering. Specialises in Transportation/Highway Engineering and Transport Economics. Has particular experience in Transport Planning, Highway Engineering Design and Transport Economics, PPP/Toll Schemes
- Computer literate and versed in various engineering and planning software, including AutoDesk Civil 3D/AutoCAD, Global Mapper, ArcView GIS, HDM-4, CUBE, ARCADY and SPSS.
- Fluent in English and Kiswahili and basic French

Most recent key projects include:

June 2012 – Date	<b>Transport Economist/Traffic Engineer</b> , Feasibility Study and Detailed Engineering for the Upgrading of Taveta – Illasit - Oloitoktok Road (D536), Kenya.
June 2012 – Date	<b>Transport Economist/Traffic Engineer</b> , Feasibility Study, Preliminary Design, Environmental And Social Impact Study for Dualling of Rironi-Naivasha-Lanet Road including Grade Separation of all Intersections between Lanet and Mau Summit (A104). Kenya.
Jun 2012 – Mar 2013	<b>Transport Economist/Traffic Engineer</b> , Feasibility Study, Preliminary & Detailed Engineering Design, ESIA and Preparation of Bid Documents for the Rehabilitation and Capacity Enhancement of A104 Road from James Gichuru Road Junction to Rironi (A104/ B3 Junction), Kenya.
Oct 2011 – Date	<b>Transport Economist/Traffic Engineer</b> , Preliminary and Detailed Engineering Design for Improvement of Upper Hill Roads Network in Nairobi, Kenya.
April – June 2011	<b>Short-Term Expert/Team Leader (Peer Review System)</b> , Piloting and Training Stakeholders in the Construction Industry, Malawi.
May10 – Mar 2011	<b>Transportation Engineer/Project Manager</b> , Study Project for the Dualling of Ngong Road (NSSF to Dagoretti Corner), Nairobi, Kenya.
May – July 10	<b>Highway Engineer</b> , Kigali Bus Terminal Debt Feasibility Study, Rwanda.
Nov 08 – July 10	<b>Project Manager/Traffic Engineer</b> , Technical Study for the Rehabilitation and upgrading of RN3 Bujumbura – Mabanda - Mugina – Tanzania Border, Burundi
Sept 07 – Sept 08	<b>Project Manager/Highway Engineer</b> , Preliminary and Detailed Engineering Design of Emali–Ukia Road (50Km), Kenya

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## Education:

MSc, Transportation Engineering, University of Nairobi, 1993  
BSc, Civil Engineering, University of Nairobi, 1990

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**Employment Record:**

Academic & Engineer Training

2005 – Date Lecturer, University of Nairobi  
1995 – 2005 Assistant Lecturer, University of Nairobi  
1994 - 1995 Tutorial Fellow, University of Nairobi

Industrial Consultancy:

July 10 – To date Director, Geomat Consulting Ltd  
Oct 08 – June 2010 Principal Engineer (Roads & Transportation), GIBB Africa Ltd  
Jul 07 – Sept 08 Principal Engineer (Roads & Transportation), Howard Humphreys (EA) Ltd  
2002 – July 07 Project Engineer, Transportation, GIBB Africa Ltd  
1999 - 2001 Transport Planner, GIBB (East Africa) Ltd

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**Experience Record:**

January 2013 - Date **Highway Engineer/Technical Auditor**, Provision of Technical, Performance and Financial Audits for Kenya Roads Board Package 1: Chief Engineer (Roads), Nairobi and Coast Regions.

June 2012 – Date **Transport Economist/Traffic Engineer**, Feasibility Study and Detailed Engineering for the Upgrading of Taveta – Illasit - Oloitoktok Road (D536), Kenya.

June 2012 – Date **Transport Economist/Traffic Engineer**, Feasibility Study, Preliminary Design, Environmental And Social Impact Study for Dualling of Rironi-Naivasha-Lanet Road including Grade Separation of all Intersections between Lanet and Mau Summit (A104). Kenya. PPP Project.

Jun 2012 – Mar 2013 **Transport Economist/Traffic Engineer**, Feasibility Study, Preliminary & Detailed Engineering Design, ESIA and Preparation of Bid Documents for the Rehabilitation and Capacity Enhancement of A104 Road from James Gichuru Road Junction to Rironi (A104/ B3 Junction), Kenya.

May – Jun 2012 **Assisting Transport Economist**, Preliminary and Detailed Engineering Design for Improvement of Ugunja – Ukwala – Ruambwa (C90) Road in Siaya/Busia, Kenya.

Oct 2011 – Date 2013 **Transport Economist/Traffic Engineer**, Preliminary and Detailed Engineering Design for Improvement of Upper Hill Roads Network in the City Council of Nairobi, Kenya: Kenya Urban Roads Authority (KURA).

July 2011 - Jun 2012 **Transport Economist/Traffic Engineer**, Feasibility Study, Preliminary and Detailed Engineering Design of Muthuani-Lukenya-Daystar University, Shell-Pepe, Kinanie-Joska and Quarry Road (Mlolongo Roads) in the Municipal Council of Mavoko, Kenya.

April – June 2011 **Short-Term Expert/Team Leader (Peer Review System)**, Piloting and Training Stakeholders in the Construction Industry, Malawi.

May10 – Mar 2011 **Transportation Engineer/Project Manager**, Study Project for the Dualling of Ngong Road (NSSF to Dagoretti Corner), Nairobi, Kenya

May – July 10 **Highway Engineer**, Kigali Bus Terminal Debt Feasibility Study, Rwanda. Client: PriceWaterhouseCoopers / Kigali City Council;

Nov 09 – May 2010 **Transport Economist**, Review and Update of Feasibility Study and Detailed Engineering Design of Ishaka-Kagamba Road (35Km) Uganda.

Mar 09 – July 2010 **Traffic Engineer**, New Mombasa Port Access Road..

Nov 08 – July 2010 **Project Manager/Traffic Engineer**, Technical Study for the Rehabilitation of RN3 Bujumbura – Mabanda - 112 Km (Lot 1) and upgrading of Mabanda – Mugina – Tanzania Border – 20Km (Lot 2).

Sept 07 – Sept 08 **Project Manager/Highway Engineer/Auditor**, Provision of Technical, Performance and Financial Audits for Kenya Roads Board Package 1: Chief Engineer (Roads), Nairobi and Coast Regions.

Sept 07 – Sept 08 **Project Manager/Highway Engineer**, Preliminary and Detailed Engineering Design of Emali-Ukia Road (50Km), Kenya. Client: Kenya Ministry of Roads and Public Works (MoRPW).

Mar – Aug 2007 **Highway Engineer/Assisting Economist**, Preliminary and Detailed Engineering Design of Nairobi–Thika Road (42Km), Kenya.

Feb – Aug 2007 **Highway/Traffic Design Engineer**, Preliminary and Detailed Engineering Design of the Wajir – Manderu Road (420km), Kenya.

Feb – May 2007 **HDM-4 Specialist**, Kenya Road User Charges Study, Kenya.

Nov 06 – May 07 **Highway Engineer**, Feasibility Study, Preliminary and Detailed Engineering Design of Miiri – Itundu (D452/E604/E602/E599/E600) Road (43Km), Kenya. Responsible for traffic studies, feasibility study, preliminary and detailed engineering design.

Nov 06 – Mar 07 **Highway/Traffic Design Engineer**, on Design Review and Construction Supervision of the Isiolo – Merile River (132km), Kenya.

Sept 05 – Dec 06 **Traffic Engineer/Assisting Economist**, Asmara – Keren Road Road (92km), Eritrea.

May 2005 – Mar 2006 **Team Leader/Lead Highways Expert** as Consultant for Katahira & Engineers International on JICA Study on Transport Master Plan for the Nairobi Metropolitan Area (Phase II), Kenya.

Mar 05 – Oct 06 **Highway Engineer / Auditor**, Technical Performance and Financial Audit of Kenya Roads Board Funded Roads, Kenya.

Sept 04 – May 05 **Highway Engineer/Economist**, Feasibility Study, Preliminary and Detailed Engineering Design of the Suna – Kehancha – Ngorengore Road (145Km), Kenya.

Aug 04 – Feb 05 **Project Manager/Lead Transportation Expert**, JICA Study on Transport Master Plan for the Nairobi Metropolitan Area, Kenya.

July – Aug 2004 **Highway Engineer/HDM-4 Specialist** as Consultant for Runji & Partners on Feasibility Study and Environmental Study of the Singida-Babati-Minjingu Road (223km), United Republic of Tanzania.

June 2004 – Sep 06 **Highway Design Engineer/Assisting Economist**, Multi-National Arusha-Namanga-Athi River Road (242km), Kenya and Tanzania.

June – Dec 04 **Project Manager/Highway Engineer**, Road Improvements Fronting Canadian High Commission Building Nairobi, Kenya.

Jan - Feb-04 **Traffic Engineer**, EA & EIA of Kipevu Combined Cycle Power Plant.

Oct 03 – Feb 04	<b>Traffic Engineer/Assisting Economist</b> , Feasibility Study of the Konso-Yabelo (105km) and Woito-Namraputh (210km) Roads, Ethiopia Roads upgrading project, southern Ethiopia.
Nov 2003 – Aug 05	<b>Traffic Engineer/Assisting Economist</b> , Lanet-Nakuru-Njoro Turn-off Road (including 15km urban roads).
Nov 03 – Mar 04	<b>Highway Engineer</b> , Muthaiga–Ruaka (C62) Road, Kenya.
Oct 2003 – Sept 2004	<b>Highway Engineer/ Economist</b> , Feasibility Study and Detailed Engineering Design of the Ilasit-Rombo-Taveta Road, Kenya.
Sept 03 – Jan 04	<b>Traffic Engineer/Assisting Economist</b> , Pre-feasibility Study of the Arba Minch-Konso-Jinka (232km) and Gonder-Humera (243km) Roads upgrading project, Ethiopia.
Jan – May 2003	<b>Highway Engineer/Team Leader</b> , JICA Traffic Survey and Opinion Interviews. Present Situation of Previous Grant Projects for Roads and Bridges.
Sept 02 – Jul 03	<b>Highway Engineer/HDM-4 Specialist</b> , on Feasibility and Environmental Study for the Tunduma-Sumbawanga Road upgrading project (230km), Tanzania.
Aug 02 – July 03	<b>Highway Engineer/ HDM-4 Specialist</b> , on Feasibility Study of the Kibungo-Ngenda-Nyabisindu Road Upgrading Project (130km), Rwanda. Carried out traffic studies, design and economic analysis for preliminary engineering and feasibility study.
Jan 02 – Sep 03	<b>Project Manager/Traffic Engineer</b> , Grand Baie Inner Bypass Project, Riviere Du Rempart, Mauritius.
Jan – Feb 2002	<b>Highway Engineer</b> , Review of Economic Feasibility Study and Engineering Design of Bangula-Nsanje-Marka Road, Malawi.
Jan 02 – Jun 03	<b>Project Manager/Traffic Engineer</b> , Phoenix-Beaux Songes Link Road Project, Plains Wilhems, Mauritius.
Oct 01 – Mar 03	<b>Design Engineer/Transport Planner</b> , Massawa Causeways Rehabilitation Project, Red Sea Port of Massawa, Eritrea.
June - August 2001	<b>Highway Engineer/HDM-4 Analyst</b> , Study on Road Maintenance Systems throughout Kenya with emphasis on 22 districts.
May - June 2001	<b>Assistant Resident Engineer</b> , Supervision of Sironko-Kapchorwa Road, Eastern Uganda.
March - April 2001	<b>Highway Engineer/HDM-4 Analyst</b> , Roads 2000 Western Kenya districts.
Feb. 2000 - May 2001	<b>Highway Engineer / Transport Planner</b> , Northern Corridor Route and Masaka-Kyotera Road, Uganda.
Mar. 1999 - March 01	<b>Design Engineer/ Transport Planner</b> , Lanet-Nakuru-Timboroa and Nakuru-Mogotio Roads, Kenya.
March - April 1999	<b>Design Engineer / Transport Planner</b> , Kipsigak-Shamakhokho and Nyaru-Tenges Roads, Kenya.
Oct. 1998 – Feb. 1999	<b>Assistant Resident Engineer</b> , Katumani-Wote Road Construction, Machakos and Makueni districts.

- July 1996 - June 1998 **Design / Materials Engineer**, Katumani-Wote Road Design (67km rural and 8km township roads), Kenya.
- May - July 1996 **Design Engineer**, Runda Estate Phase IV Infrastructure Services, Nairobi.
- March - June 1996 **Transport Planner/Traffic Engineer**, Mombasa Municipality Urban Transport Study, Mombasa Municipal Council.
- August - October 1994 **Transport Planner**, Local Authorities Road Inventory Project, Central, Western, Nyanza, Coast, Eastern and North-eastern provinces.
- July - August 1994 **Traffic Engineer**, Kenya Urban Transport Infrastructure Project (KUTIP), Kericho Municipality, Rift Valley Province.

#### **Publications:**

Matheri, G.P.K. and Mbeche, O. O.: Predicting Noise Exposure Levels at Wilson Airport, Nairobi. *African Journal of Science and Technology*. Vol. 2, April 1996.

Matheri, G.P.K.: *Stochastic Methods in Urban Transportation Planning: A case Study of Kisumu*. M.Sc. thesis. Department of Civil Engineering, University of Nairobi, November 1993.

#### **Seminars Papers/ Engineers Training**

Matheri, G. P. K.: *Economic Feasibility Study and Preliminary Design of Projects*. Institution of Engineers of Kenya (IEK) Engineers Contract Management Training Seminar Kenya Multi-media University College, Nairobi, 21 – 25 October 2011.

April – June 2011: Team Leader (Peer Review). *Piloting and Training Stakeholders in the Construction Industry, Malawi*. INSTAP EuropeAid /122678/D/SER/MW

Matheri, G. P. K.: *Technical and Economic Feasibility Study and Preliminary Design: A Case Study of Arusha-Athi River-Namanga Road Project*. Institution of Engineers of Kenya (IEK) Engineers Contract Management Training Seminar Kenya Multi-media University College, Nairobi, 25 – 29 October 2010.

Matheri, G. P. K.: *The Process of Technical and Economic Feasibility Study and Preliminary Design: A Case Study of Arusha-Athi River-Namanga Road Project*. Institution of Engineers of Kenya (IEK) Engineers Contract Management Training Seminar, Kenya College of Communication Technology, Nairobi, 26 – 29 May 2009.

Matheri, G. P. K.: *A Case Study of Feasibility Study and Preliminary Design*. Institution of Engineers of Kenya (IEK) Engineers Contract Management Training Seminar, Kenya College of Communication Technology, Nairobi, 21 – 23 July 2008.

Matheri, G. P. K.: *Experience Using HDM-4 in Sub-Sahara Africa Region*. World Bank HDM-4 Workshop, Kampala Uganda, 11 – 15 December 2006

April – June 2005: Headed Training for two engineers from Ethiopia Roads Authority (ERA) seconded to Gibb Africa Nairobi office – Mr Getachew Medafro and Ms Saba Milion. Training covered design and feasibility study procedure and HDM-4 software.

June – August 2004: Involved in *Training Engineers and roads managers from the Republic of Somaliland* organized by the World Bank/University of Nairobi: Training covered included road system management, condition surveys, maintenance planning and economic analysis