

## CURRICULUM VITAE

**FRANÇOIS LE ROUX**

**MALHERBE PR ENG**




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**Nationality:** South African  
**Membership of professional societies:** The Southern African Acoustics Institute, Fellow  
 Engineering Council of South Africa (Pr. Eng)  
 Acoustic Society of America (Electronic  
 Corresponding Member)

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### BIOGRAPHICAL SKETCH

Worked for fourteen years as engineer at the Laboratory for Vibration and Acoustics (LVA) of the SABS. Gained experience in a wide range of acoustic and vibration test and measurement techniques. Was representative on various committees concerning environmental noise standards and prediction methods. Gained extensive experience in the theory and application of national and international prediction models for road traffic, aircraft, railway and industrial noise and noise control techniques. Became engaged in a large number of environmental impact studies in the mining, transport and industrial field. Started own acoustic consultancy in 1999, specialising in noise prediction and noise control. Has since been responsible for the noise impact component on a large number of projects as team member of high ranking environmental consultants such as SRK, ERM, CSIR, WSP, Oryx, Envirolink, Metago, GCS, L&W, CES. Clients include MITAL (ISCOR), SASOL, ESKOM, MMC, Anglo Platinum, Anglo Gold, Shell, Rio Tinto, Bakwena, BKS, Africon.

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### EDUCATION

1991 MSc Eng (Electronic), University of Pretoria  
 1978 BSc Eng (Electrical), University of Stellenbosch  
 1972 Matriculation, Menlopark High School, Pretoria

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### EMPLOYMENT RECORD

<b>1999 – present</b>	<b>François Malherbe Acoustic Consulting cc</b> Member
<b>1985 – 1999</b>	<b>Laboratory for Vibration and Acoustics, SABS, Pretoria</b> Senior Engineer
<b>1981 – 1985</b>	<b>South African Transport Services (Signalling and Telecommunication)</b> District Engineer, Signalling and Telecommunication, Southern Transvaal
<b>1979 – 1980</b>	<b>South African Transport Services (Signalling and Telecommunication)</b> Assistant Engineer, Signalling and Telecommunication, Western Cape

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## EXPERIENCE RECORD

The following table is a profile of relevant project experience, assembled from approximately 350 larger projects. The codes used in the column for the Field of Activity have the following meaning:

ENM	Environmental noise measurements
SNM	Specialised noise measurements for source identification, analysis and calculation of sound power emission levels
ANL	Assessment of measured and calculated noise levels
Road	Modelling of road traffic noise
Air	Modelling of aircraft noise
Rail	Modelling of railroad noise
Ind	Modelling of industrial noise
NCD	Noise control design
Rsrch	A project where a significant amount of literature and/or technical research was included

Year	Project	Client	Field of Activity
2007	Noise impact assessment for the Zonk'izizwe development at Grand Central in Midrand	EIMS	Air, ANL
2007	Noise impact study for a new rail link between the Beeshoek area and the Saldanha export line	Synergistics	ENM, Rail
2007	Noise impact study for a coal mining operation and power station in Botswana	ERM	ENM, Ind, Road, Rail, ANL
2007	Noise impact study for a diesel-powered power station at Rabai in Kenya.	CES	ENM, Ind, ANL
2007	Noise impact study for an early production system for oil and electrical power at Lake Albert in Uganda.	ERM	ENM, Ind, ANL
2007	Noise impact study for the Kamoto Project at Kolwezi in the DRC.	SRK	ENM, Ind, ANL
2007	Noise impact study for a pumped energy system, including a wind energy component at Kouga in the Eastern Cape.	CSIR	Ind, ANL
2006	Noise impact investigation for an open cast copper mine in Zambia.	SRK	ENM, Ind, ANL
2006	Noise source identification and analysis for a large paper mill.	Mondi Durban	SNM, ANL, Ind, NCD
2006	Noise impact investigation for the realignment of the R555 for the proposed new De Hoop Dam in Mpumalanga	VelaVKE	Road, ANL
2006	Noise impact investigation for a proposed cement processing plant in Randfontein	SRK	ENM, ANL, Road, Rail, Ind
2006	Comparative noise study for the RoD and Variant alignments for the Gautrain Rapid Rail System	Felehetsa	Rail, ANL
2006	Modeling of rail transport noise for the Gautrain Rapid Rail System	Africon	Rail, NCD, Rsrch
2005	Calculation of the preliminary noise contours for a proposed new international airport north of Pretoria	D Hill	Air, ANL
2005	Noise impact investigation for new intermediate shafts at the RMPR operation near Rustenburg	Anglo Platnum	Ind, ANL, NCD
2005	Analysis of noise emissions and design of noise control measures at a crushing plant	Zimbiwa Dolomite	SNM, Ind, NCD
2005	Noise impact investigation for the Beesting coal mining operation at Ogies, Eastern Highveld	Oryx	Ind, Road, ANL

<b>Year</b>	<b>Project</b>	<b>Client</b>	<b>Field of Activity</b>
2005	Investigation into the noise aspects of the new Northern Jhb Landfill site at Diepkloof	Jones & Wagener	Ind, ANL
2005	Detail investigation into noise levels next to the Platinum Highway through Rustenburg.	Bakwena	ENM, Road, ANL, NCD
2005	Noise impact study for the KOV project in the DRC	SRK	ENM, ANL
2005	Noise impact study of a new iron ore mine near Sishen.	GCS	ENM, Ind, ANL
2004	Noise impact study for the Kolwezi project in the DRC	SRK	ENM, Ind, Rail, ANL
2004	Noise impact study for the KUDU gas fired power station project in Oranjemund Namibia	CSIR	ENM, Ind, ANL, NCD, Rsrch
2004	Noise impact investigation for the Impala No 16 Shaft near Rustenburg, North-West Province.	GCS	Ind, ANL, NCD
2004	Noise impact investigation for the upgrading of the Mondi Paper Mill in Durban	SRK	SNM, Ind, ANL
2004	Investigation into high noise levels at the blower house of Iscor in Newcastle	Iscor Newcastle	SNM, Ind, NCD, ANL
2003	Calculation of the noise contours for Wonderboom Airport	Bolhweki	Air, ANL
2003	Investigation into rumblestrip noise	Ndodana	SNM, ANL, Rsrch
2003	Design aspects of noise control for the Platinum Highway and Toll Plazas	Bakwena	ENM, SNM, Road, ANL, NCD
2003	Noise impact investigation for the Port Elizabeth Airport	Buffalo City Council	Air, ANL
2003	Monitoring of environmental noise levels for ISCOR plants	ISCOR	ENM, ANL
2003	Noise impact investigation for a platinum mine at Brakfontein in Mpumalanga	SRK	Ind, Road, ANL, NCD
2002	Noise impact investigation for the proposed Transvaal Ferrochrome Smelter at Mooinooi	Metago	ENM, SNM, Ind, ANL, NCD
2002	Noise impact study for a proposed waste disposal site near Cape Town	SRK	ENM, Ind, ANL
2002	Noise impact investigation for the Klipspruit open cast coal mine	Oryx	ENM, Ind, ANL
2002	Calculation of the of the noise exposure caused by aircraft operations from an airstrip at Tarkwa, Ghana	Goldfields, Ghana	Air, ANL
2002	Noise impact investigation for the Sasol Themane gasfields project, Moçambique	Metago	Ind, ANL, Rsrch
2002	Baseline noise study for the Platreef Platinum Project	Walmsley	ENM, ANL
2001	Investigation into the noise aspects and impacts of a wind energy farm in the Western Cape	ESCOM TSI	ENM, Ind, ANL, Rsrch
2001	Calculation of the noise contours for the Wonderboom Airport, Pretoria	BKS	Air, ANL
2000	Noise impact investigation for the Rio Tinto Murowa Project, Zimbabwe	Walmsley	ENM, Ind, ANL
2000	Noise impact investigation for a proposed new Ultra City along the R21, Irene, Pretoria	Shell SA	SNM, Road, ANL, NCD, Rsrch
2000	Noise impact investigation for the Gamsberg Zinc Mine, Northern Cape	AATS Envirolink	ENM, Ind, ANL
1999	Calculation of the noise contours for JIA and verification of prediction models	Kempton Park	Air, SNM, ANL

Year	Project	Client	Field of Activity
1999	Measurement and assessment of traffic noise as a function of pavement type in the Schoemanskloof area, Mpumalanga	SBB	SNM, Road, ANL, NCD, Rsrch
1999	Modelling of the noise impact of an open cast gold mine in Guatemala, Central America	SRK	Ind, ANL
1999	Noise aspects of the State of the Environment Report for the Midrand Region	SRK	ANL, NCD
1998	The development of a policy document for the control of aircraft noise in the vicinity of South African Airports	BKS DOT	Air, Rsrch
1997	The noise impact of an existing mine on the banks of the Vaal River	Sasol Sigma	ENM, SNM, Ind, ANL
1997	The noise impact of a new open cast mining operation for Sasol on the banks of the Vaal River	Walmsley	ENM, SNM, Ind, ANL
1997	The investigation into the presence and effect of low frequency fan noise near Irene, Pretoria	ESCOM	ENM, SNM, Rsrch, ANL
1996	The noise impact of a PPC slag mill at Saldanha Steel	CSIR	Ind, NCD, ANL
1996	The assessment of community noise levels in Saldanha and the specification of design objectives for a proposed steel plant	Saldanha Steel	ENM, SNM, ANL
1995	The calculation of noise contours for the N1 in Midrand	Midrand Town Council	Road, ANL, NCD
1994	The noise impact of a proposed railway link and operation between Palmford and Majuba Power Station	SRK	ENM, Rail, Rsrch, ANL
1990	Prediction of the noise impact and noise control for the widening of Skinner Street in Pretoria	Pretoria City Council	ENM, SNM, Road, ANL
1988	The noise impact of heavy vehicle engine brakes at Town Hill in Pietermaritzburg	Natal Provincial Administration	ENM, SNM, Rsrch, Road, ANL

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## LANGUAGE CAPABILITIES

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LANGUAGES	Speaking	Reading	Writing	
Afrikaans*	Excellent	Excellent	Excellent	* Mother language
English	Excellent	Excellent	Excellent	
German	Excellent	Excellent	Excellent	
French	Fair	Good	Fair	