



### **Dr. Johan Kotze**



R&D Innovation  
Manager at Head  
Sport GmbH (Racket  
sports division)

#### **Experience**

##### **Innovation Manager Racket sports Head Sport GmbH**

Sporting Goods industry  
February 2002 – Present (8 years)  
Developing and maintaining the  
innovation system which delivers  
innovations to the racket sports  
division, dealing with external  
inventors, cultivating innovation  
culture.

##### **Research Assistant Loughborough University**

Educational Institution; Higher  
Education industry

October 1998 – February 2002 (3  
years 5 months)

Research on the influence of  
various factors on racket  
performance. A large part of  
the project included building a  
tennis robot which can simulate  
a high-speed tennis swing.

##### **Mechanical Engineer in training Natref Oilrefinery**

Oil & Energy industry

January 1998 – 1999 (1 year)

Basic induction training and  
department rotation, part of  
team to implement SAP  
Projects and Documentation  
modules.

#### **Education**

##### **Loughborough University**

Ph.D. Sports Engineering

1999 – 2002

*Activities and Societies:* The  
project involved investigating  
the factors effecting tennis  
racket power and was  
sponsored by the International  
Tennis Federation.

##### **University of Cape Town**

MSc Biomedical Engineering

1995 – 1996

# ENGINEERING EMOTION

## ISEA Conference 2010 Vienna

**isea**  
INTERNATIONAL SPORTS ENGINEERING ASSOCIATION



*Activities and Societies:* Project involved the development of a prosthetic hand and controls algorithms for basic grip shapes.

**Stellenbosch University/Universiteit Stellenbosch**

B.Eng Mechanical Engineer  
1991 – 1994

*Activities and Societies:* Final project involved developing a wing-actuated mechanical bird.