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Prof.dr.ir. Ivo J.B.F. Adan  
Eindhoven University of Technology (Tu/e)  
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Cornélio Procópio, July 17, 2021

Dear Prof.dr.ir. Adan,

I am writing to apply for the position of Assistant Professor in Operations Management (REF.: V39.4656) because I see it as an invaluable, exciting opportunity for many reasons.

I have been performing research on Sustainable Operations Management since 2011,

after watching Prof. Carl Folke's lecture in Wageningen. Two of his propositions stunned me: "technological solutions cannot solve cultural problems" - so controversial! -, and "governance is not government".

What do I want to do for research in sustainable operations management? Ver figura no Evernote

Besides research, I have practical experience with operations management. I spent five years in the automotive industry, leading multidisciplinary groups through the design and development of mechanical parts. I reported project updates to board meetings and followed customers' requirements. In 2010, I changed my focus to academia, and discovered a passion for sustainable development. For my Master's, I developed a conceptual model for sustainable product development, focused on end-of-life. Later, I spent four fruitful years of my PhD: in Wageningen, I followed two courses promoted by Prof. Hofstede on Complex Adaptive Systems, and one course on Biobased Logistics. For my PhD. thesis, I modelled a business process to design eco-effective supply chains. I also explored using the Ecosystem Network Analysis, a model based on information theory implemented in R, as a metric for Resilience. Finally, I proposed a metaphor for Regenerative Supply Networks, upon which I designed a restorative household waste management system. I used Vensim to create a stock and flows model, using its output in an optimisation model developed in XPress IVE.

In my future research, I intend to model ... the emergence of behavioural change and social interactions to accelerate the transition to a more sustainable society.

This is not my only passion, however: I am also enthusiastic about academic duties. In 2014, I led the implementation of the Academic Department of Mechanics of the campus I work, and conducted a successful restructure of the bachelor's in Mechanical Engineering. For the past two years now, I have been increasingly adopting active learning in my

courses. Adapting teaching activities have been pretty challenging, especially after COVID-19 outbreak: students are much accustomed to expository teaching, still widely used by most professors. Nevertheless, I am receiving satisfactory feedback from the students, and to observe how they develop soft and hard skills inspires me to keep developing my skills in active learning.

Achieving a sustainable society in the long term is a personal ambition. I can add substantial value through my solid background on mechanical engineering, my experience with design and development and multi-level analysis. I'm confident I can help the Operations, Planning, Accounting & Control group to make a substantial contribution to research and practice, using my modelling and communication skills and my ability to propose comprehensive, creative solutions. I'm looking forward to discussing the position with you, and I remain available to provide you with any additional information you might need.

With kind regards,

Vitor Miranda de Souza.