



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكروفيلم

# بسم الله الرحمن الرحيم



**MONA MAGHRABY**



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التوثيق الإلكتروني والميكروفيلم



# شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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# جامعة عين شمس

## التوثيق الإلكتروني والميكروفيلم

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نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
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### يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



**MONA MAGHRABY**



Cairo University

# **DESIGNING FOR AUTISM SPECTRUM: TOWARDS INCLUDING AUTISTIC PEOPLE IN MAINSTREAM SCHOOLS**

By

**Nouran Hamdy Ewiss**

A Thesis Submitted to the  
Faculty of Engineering at Cairo University  
in Partial Fulfillment of the  
Requirements for the Degree of  
**MASTER OF SCIENCE**  
in  
**Architectural Engineering**

FACULTY OF ENGINEERING, CAIRO UNIVERSITY  
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**Title of Thesis:**

**Designing for autism spectrum: Redesigning mainstream schools to include children with Autism.**

**Key Words:**  
Autism; Inclusion; Mainstream schools; Redesign; Autism friendly.

**Summary:**

This research aims to study the relation between architecture and autism, towards including autistic people in the mainstream schools along with their normally developing peers. The research focuses on studying autism spectrum disorder, the symptoms, and the users' psychological and physiological needs. In addition, studying the spatial needs of autistic people and the impact of the architectural elements and design on them. The research mainly focuses on designing the learning environments for autistic people along with the design guidelines of the mainstream schools, in order to reach the optimal and most common design guideline to create an inclusive autism friendly environment able to host both autistic students along with their normally developing peers.



## **Disclaimer**

I hereby declare that this thesis is my own original work and that no part of it has been submitted for a degree qualification at any other university or institute.

I further declare that I have appropriately acknowledged all sources used and have cited them in the references section.

Name:

Date:

Signature:



# **Dedication**

This thesis is dedicated to all people on the autism spectrum and their families, hoping to help them live a normal life.

## Acknowledgments

It has been a long journey! Full of pressure, stress, failure, losing hope and crying, along with learning, gaining skills, excitement, challenges and pride.

I have to say alhamdulillah and thank Allah for giving me the patience and strength to complete this work and from all my heart I hope this research turns into something helpful for people.

Sincere gratitude and appreciation go to my professors; Dr. Karim Kesseiba and Dr. Menna El-Hussieny. I highly appreciate their fruitful comments, continuous support, guidance, and patience, and special appreciation goes for handling my physical absence and managing to work with completely different time zones.

My family, who never gave up on me, without their support I'd have never kept going and working on my thesis. My beautiful mom, who has never given up on me, she kept pushing and motivating me through my darkest times and she used to tell me that I'm helping people not just seeking an educational degree. My father, who has always been witnessing and praying I hope I'm making you proud of me. My sister and best friend, thanks for always being there for me. My brother, thanks for the care and support appearing in so many different languages. My nephew, who used to love me unconditionally ☺.

And finally, my husband and lifetime friend and partner, who has been with me through the whole journey helping and supporting. He managed to listen to all my meltdowns and turn them into challenges.

To all my friends who had done beautiful work, thanks for encouraging me to keep going. And those who are struggling to continue, thanks for sharing the journey with me and for not letting me feel alone in this journey.

To all those strangers who helped me for no reason thank you.

And for those who have never done their part, please be kind ☺

Finally, we are neither late, nor early. We are just on time.

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