Curriculum vitae Europass

Informaţii personale

Nume / Prenume	**Geonea Ionuț Daniel**
Adresă(e)	Str. Dr. Constantin Angelescu, nr. 5, Bl. V 27, ap. 4, Craiova, cod 200431, Romania
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E-mail(uri)	igeonea@yahoo.com, igeonea@gmail.com, ionut.geonea@edu.ucv.ro
Naţionalitate(-tăţi)	Română
Data nașterii	17.01.1981
Sex	Masculin

Locul de muncă vizat / Domeniul ocupaţional

Profesor universitar / învățământ superior

Educaţie şi formare

Perioada	**2005-2009**
Calificarea / diploma obţinută	Doctor în "Inginerie mecanică" (Ştiinte inginerești), diploma seria G., nr. 0002022 din 4.09.2009, cu teza Cercetări privind analiza şi sinteza unor mecanisme de la maşini agricole
Disciplinele principale studiate / competenţe profesionale dobândite	Mecanică, Mecanisme, Structuri spațiale mobile, Roboți industriali.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea din Craiova
Nivelul în clasificarea naţională sau internaţională	Doctorat (ISCED 6)
Perioada	**2015-2017**
Calificarea / diploma obţinută	Masterat, în domeniul ingineria autovehiculelor, specializarea Automotive Engineering, Design and Manufacture
Disciplinele principale studiate / competenţe profesionale dobândite	Proiectare si fabricare în ingineria autovehiculelor
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea din Craiova
Nivelul în clasificarea naţională sau internaţională	Master (ISCED 6)
Perioada	**2005-2007**
Calificarea / diploma obţinută	Masterat, în domeniul inginerie mecanică, specializarea Modelare și simulare în ingineria mecanică, diploma seria G., nr.0026084 din 14.07.2008
Disciplinele principale studiate / competenţe profesionale dobândite	Modelare și simulare în ingineria mecanică
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea din Craiova

Nivelul în clasificarea naţională sau internaţională	Master (ISCED 6)
Perioada	**2000-2005**
Calificarea / diploma obţinută	Inginer mecanic - Diploma de Licență, specializarea "Mașini și instalații agricole", diploma seria D., nr. 0008357
Disciplinele principale studiate / competenţe profesionale dobândite	Disciplinele fundamentale și de specialitate prevăzute în planul de învățământ.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea din Craiova, Facultatea de Mecanică, Craiova, Romania
Nivelul în clasificarea naţională sau internaţională	Învăţământ superior (ISCED 5)
Perioada	**1996-2000**
Calificarea / diploma obţinută	Studii liceale, diploma de bacalaureat seria R., nr. 0257908
Disciplinele principale studiate / competenţe profesionale dobândite	Disciplinele de specialitate prevăzute în planul de învățământ.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Liceul Industrial nr. 4, Traian Demetrescu

Experienţa profesională

Perioada	Octombrie 2025
Funcţia sau postul ocupat	**Profesor universitar**
Activităţi şi responsabilităţi principale	Cursuri: Metoda elementului finit, Organe de mașini, Bazele cercetării experimentale. laborator/seminar: Organe de Mașini, Tribologie, Mecanisme. Proiect: Organe de mașini.
Numele şi adresa angajatorului	Universitatea din Craiova, str. A.I. Cuza nr. 13, Craiova, Romania
Tipul activităţii sau sectorul de activitate	Învățământ superior
Perioada	Septembrie 2018-Septembrie 2025
Funcţia sau postul ocupat	**Conferențiar universitar**
Activităţi şi responsabilităţi principale	Cursuri: Bazele modelării sistemelor mecanice, Organe de mașini, Bazele cercetării experimentale. laborator/seminar: Organe de Mașini, Tribologie, Rezistența Materialelor. Proiect: Organe de mașini.
Numele şi adresa angajatorului	Universitatea din Craiova, str. A.I. Cuza nr. 13, Craiova, Romania
Tipul activităţii sau sectorul de activitate	Învățământ superior
Perioada	Octombrie 2012 -Septembrie 2018
Funcţia sau postul ocupat	**Șef de lucrări universitar**
Activităţi şi responsabilităţi principale	Cursuri: Bazele modelării sistemelor mecanice, Organe de mașini, Bazele cercetării experimentale. laborator/seminar: Organe de Mașini, Tribologie, Rezistența Materialelor. Proiect: Organe de mașini.
Numele şi adresa angajatorului	Universitatea din Craiova, str. A.I. Cuza nr. 13, Craiova, Romania
Tipul activităţii sau sectorul de activitate	Învățământ superior

Experienţa profesională

Perioada	**Ianuarie 2011-octombrie 2012**
Funcţia sau postul ocupat	**Asistent universitar**
Activităţi şi responsabilităţi principale	Cursuri: Bazele modelării sistemelor mecanice, Organe de mașini, Bazele cercetării experimentale. laborator/seminar: Organe de Mașini, Tribologie, Rezistența Materialelor. Proiect: Organe de mașini.
Numele şi adresa angajatorului	Universitatea din Craiova, str. A.I. Cuza nr. 13, Craiova, Romania
Tipul activităţii sau sectorul de activitate	Învățământ superior
Perioada	**2006-2011**
Funcţia sau postul ocupat	**Preparator universitar**
Activităţi şi responsabilităţi principale	Laborator: Rezistența Materialelor, Tribologie, Organe de mașini, Proiect Organe de mașini.
Numele şi adresa angajatorului	Universitatea din Craiova, str. A.I. Cuza nr. 13, Craiova, Romania
Tipul activităţii sau sectorul de activitate	Învățământ superior

Perioada	**August 2005- iunie 2006**
Funcţia sau postul ocupat	**Inginer mecanic proiectare cercetare**
Activităţi şi responsabilităţi principale	Activitate de cercetare proiectare
Numele şi adresa angajatorului	Mașini Agricole și tractoare S.A., bulevardul Decebal, Craiova
Tipul activităţii sau sectorul de activitate	Cercetare-Proiectare

Aptitudini și competente personale

Limba maternă: Română

Limbi străine cunoscute: **engleza, franceza, germana**

Autoevaluare	Înțelegere				Vorbire				Scriere	
Nivel european (*)	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
Limba franceză	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
Limba engleză	B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine

Competenţe şi abilităţi sociale: Capacitate mare de integrare și adaptare, buna comunicare și relaționare cu parteneri din diferite medii și sfere sociale.

Competenţe şi aptitudini organizatorice: Capacitate organizatorică bună, abilități în organizarea de simpozioane, conferințe și seminarii științifice.
Membru în Comitetul de organizare al mai multor conferințe internaționale, printre care:

- International Conference on Mechanical Engineering ICOME 2010, 2013, 2015, 2017, 2019 Craiova, Romania
-SMAT 2019
-Seminarul Național de Mecanisme 2010, Seminarul Național de Organe de Mașini 2015.

Competenţe şi aptitudini tehnice: Aptitudini dezvoltate în domeniul cercetării tehnice și fundamentale, îndemânare și abilitate în domeniile de interes științific, bun experimentator.

Competenţe şi aptitudini de utilizare a calculatorului: Cunoștințe dezvoltate în procesare matematică simbolică și numerică (Maple, Matlab, Mathematica), modelare și simulare (ProEngineering, SolidWorks, Msc.Adams), editare științifica (Latex), birotică și calcul tabelar (MS Office Suite, Lotus Suite, etc).

Competenţe şi aptitudini artistice

Alte competenţe şi aptitudini

Permis de conducere: Categoria B, C

Informaţii suplimentare

Afilieri: Membru în societăți științifice:
ART-Asociația Română de Tribologie - Președinte filiala ART Dolj (2014-2018, 2018-2022).
ARTENS - Romanian Association for Stress Analysis
AroTMM – Asociația Romana de Transmisii Mecanice

Anexe: Anexa Lucrări Științifice.

A. Cărți, monografii

1. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto”, Secţiunea I Motorizare, Prof. dr. ing. Nicolae Dumitru, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-88345-5-2.

2. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto”, Secţiunea II Sisteme de direcţie, Sisteme de suspensie, Prof. dr. ing. Nicolae Dumitru, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-88345-8-3.

3. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto”, Secţiunea III Sisteme de transmisie, Prof. dr. ing. Nicolae Dumitru, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-1827-5-2.

4. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto”, Secţiunea IV Sisteme electrice şi electronice, Prof. dr. ing. Marin Mihnea, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-88345-06-03.

5. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto”, Secţiunea V Pregătirea şi vopsirea autovehiculelor, Prof. dr. ing. Marin Mihnea, Prof. dr. ing. Rinderu Paul, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007.

6. Catrina Gh., Copilusi C., **Geonea I.**, Dumitru N., Margine A., A. Ungureanu, Îndrumar de proiectare pentru transmisii mecanice. Editura Universitaria Craiova, 404 pagini, ISBN 978-606-14-0043-0, 2010.

7. Vâlcu Roșca, **Ionuț Daniel Geonea**, Alina Elena Romanescu, Rezistența materialelor, vol. 1, Solicitări simple. Teorie și aplicații rezolvate, Editura Sitech, Craiova 2015, ISBN 978-606-11-4761-5, 340 pag.

8. Ionuț Daniel Geonea, Sisteme mecanice mobile. Analiza cinematică și dinamică, Editura Sitech, Craiova, 2015, 260 pag.

9. Alexandru Margine, **Ionut Daniel Geonea**, Tribologie. Aspecte teoretice şi aplicative. Editura Sitech, Craiova 2018, ISBN978-606-11-6349-6, 248 pagini. (Publicaţia este înregistrată în fondul de carte al bibliotecii naţionale).

10. Copiluși Cristian, **Geonea Ionut**, Margine Alexandru, Dumitru Nicolae. Organe de maşini. Note de curs. Universitatea din Craiova 2016. 280 pagini (format electronic).

11. Geonea Ionut Daniel, Calculul şi proiectarea reductoarelor, Manual suport curs Organe de Maşini, Universitatea din Craiova, 2018, 143 pagini.
http://mecanica.ucv.ro/Organizare/Departamente/MACC/Cadre/Individuale/Extra/Carte%20Aplicatii%20Organe%20de%20%20Masini.pdf

12. Geonea Ionut Daniel, Tribologie. Noţiuni teoretice şi aplicaţii de laborator. Manual suport curs Tribologie, 190 pagini.
http://mecanica.ucv.ro/Organizare/Departamente/MACC/Cadre/Individuale/Extra/Geonea%20notiuni%20Tribologie.pdf

13. Cristian Copiluși, Nicolae Dumitru, **Ionut Daniel Geonea**, Alexandru Margine, Alin Ungureanu, Bazele modelării sistemelor mecanice. Aplicații. Format electronic, 165 pagini.

14. Cristian Copiluși, **Ionut Daniel Geonea**, Nicolae Dumitru, Alexandru Margine, Alin Ungureanu, Îndrumar laborator - Organe de Maşini.

Proiecte de cercetare - dezvoltare pe bază de contract/grant:

1. Contract de cercetare CNCSIS, Tip TD 2007 cu titlul “*Cercetări privind analiza şi sinteza unor mecanisme de la maşinile agricole*”. Director de proiect, Nr. contract: 234/1.10.2007, suma 15.038 RON
http://cis01.ucv.ro/cercetare/prez_proiecte_list.php?tip_c=8&tip_g=3&an=2007

2. Contract CEEX – Modul 1 Titlul: „Tehnologie si instalație ecologica de detensionare a subansamblelor din otel turnate, forjate sau sudate”; anul 2006; sursa de finanțare: CNCSIS, program CEEX. Director Proiect: Proca Victor, INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE SI INCERCARI PENTRU ELECTROTEHNICA ICMET DIN CRAIOVA, Suma aprobata: 274380 lei RON; poziţia ocupata: membru colectiv.
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=925, http://www.icmet.ro/ceex1.htm

3. Proiectul „Cursuri de perfecționare pentru tehnicienii din service-urile auto; Anul: 2007. Sursa de finantare: Uniunea Europeană prin programul PHARE; beneficiar: S.C. RALCOREX. SRL; suma aprobata: 85550 lei RON; director: prof. dr. ing. Paul Rinderu, Universitatea din Craiova, poziţia ocupata: membru.

4. Contract nr. 30C/ 16.03.2009, Studiu privind determinarea solicitărilor în mecanismul de cuplare cu ridicător hidraulic al tractorului MAT8001 – în agregat cu plugul reversibil PR3M. Beneficiar MAT SA Craiova, valoare contract 45000 RON, Director contract Prof. dr. ing. Neagoe Dumitru, perioada 2009-2010.

5. Expert, Proiectul „Consolidarea capacităţii instituţionale a Consorţiului Regional pentru educaţie şi formare profesională, cod contract: POSDRU/93/3.3/S/61944, Beneficiar, Agenţia pentru Dezvoltare Regională Sud Vest Oltenia, 2013. Manager Proiect, Director ADR Sud Vest Oltenia, Marilena Bogheanu.

6. Membru, Proiect, Cercetarea substituţiei osoase cu materiale biocompozite fabricate prin tehnici specifice metalurgiei pulberilor, Contract de cercetare PN-II-PT-PCCA-2013-4-2094, nr. 244/2014, valoare proiect 1437500 RON

7. Grant de Cercetare avansata, Universitatea din Craiova 45C/27.01.2014, Sistem mecanic inovativ pentru asistarea locomotiei persoanelor cu disabilități, Director, valoare 12 000 RON.

8. Universitatea din Craiova POSDRU/159/1.5/S/133255 Bursa postdoctorala, POSDRU/159/1.5/S/133255, Cercetări privind dezvoltarea unui cărucior motorizat pentru deplasarea persoanelor cu disabilități locomotorii, Director proiect, valoare 66600 RON
http://www.ucv.ro/media/det.php?id=539
http://www.ucv.ro/pdf/media/stiri/2014/burseposdru/anexa%2011_rezultate_selectie_POSTDOC.pdf

9. Sistem robotic destinat reabilitării locomoției persoanelor cu deficiente neuromotorii, Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare Proiect experimental – demonstrativ, UEFISCDI - buget de stat, 239/2017. Director. Prof. Dr. Ing. Dumitru Nicolae.

Data,
20 Octombrie 2025

Semnătura,
prof. dr. ing. Ionuț Daniel Geonea

Lista de Lucrări Științifice

A. Teza de doctorat:

Denumirea: **Cercetări privind analiza și sinteza unor mecanisme de la mașini agricole***, 2009, sub îndrumarea Prof. Dr. ing. Nicolae Dumitru*

Domeniul: Inginerie Mecanică

B. Cărţi, monografii, cursuri format electronic

1. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto", Secţiunea I Motorizare, Prof. dr. ing. Nicolae Dumitru, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-88345-5-2.

2. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto", Secţiunea II Sisteme de direcţie, Sisteme de suspensie, Prof. dr. ing. Nicolae Dumitru, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-88345-8-3.

3. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto", Secţiunea III Sisteme de transmisie, Prof. dr. ing. Nicolae Dumitru, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-1827-5-2.

4. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto", Secţiunea IV Sisteme electrice şi electronice, Prof. dr. ing. Marin Mihnea, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007, ISBN 978-973-88345-06-03.

5. „Cursuri de perfecţionare pentru tehnicienii din service-urile auto", Secţiunea V Pregătirea şi vopsirea autovehiculelor, Prof. dr. ing. Marin Mihnea, Prof. dr. ing. Rinderu Paul, **drd. Ing. Geonea Ionut Daniel**, drd. Ing. Copiluşi Petre Cristian, Editura Cellina, Craiova 2007.

6. Catrina Gh., Copilusi C., **Geonea I.**, Dumitru N., Margine A., A. Ungureanu, Îndrumar de proiectare pentru transmisii mecanice. Editura Universitaria Craiova, 404 pagini, ISBN 978-606-14-0043-0, 2010.

7.Vâlcu Roșca, **Ionuț Daniel Geonea**, Alina Elena Romanescu, Rezistența materialelor, vol. 1, Solicitări simple. Teorie și aplicații rezolvate, Editura Sitech, Craiova 2015, ISBN 978-606-11-4761-5, 340 pag.

8.Ionuț Daniel Geonea, Sisteme mecanice mobile. Analiza cinematică și dinamică, Editura Sitech, Craiova, 2015, 260 pag.

9. Alexandru Margine, **Ionut Daniel Geonea**, Tribologie. Aspecte teoretice şi aplicative. Editura Sitech, Craiova 2018, ISBN978-606-11-6349-6, 248 pagini. (Publicaţia este înregistrată în fondul de carte al bibliotecii naţionale).

10. Copiluși Cristian, Geonea Ionut, Margine Alexandru, Dumitru Nicolae. Organe de maşini. Note de curs. Universitatea din Craiova 2016. 280 pagini (format electronic).

11. Geonea Ionut Daniel, Calculul şi proiectarea reductoarelor, Manual suport curs Organe de Maşini, Universitatea din Craiova, 2018, 143 pagini.

http://mecanica.ucv.ro/Organizare/Departamente/MACC/Cadre/Individuale/Extra/Carte%20Aplicatii%20Organe%20de%20%20Masini.pdf

12. Geonea Ionut Daniel, Tribologie. Noţiuni teoretice şi aplicaţii de laborator. Manual suport curs Tribologie, 190 pagini.
http://mecanica.ucv.ro/Organizare/Departamente/MACC/Cadre/Individuale/Extra/Geonea%20notiuni%20Tribologie.pdf

13. Cristian Copiluși, Nicolae Dumitru, **Ionut Daniel Geonea**, Alexandru Margine, Alin Ungureanu, Bazele modelării sistemelor mecanice. Aplicații. Format electronic, 165 pagini.

14. Cristian Copiluși, **Ionut Daniel Geonea**, Nicolae Dumitru, Alexandru Margine, Alin Ungureanu, Îndrumar laborator - Organe de Maşini.

15. Tarnita, D., Dumitru, N., Pisla, D., Carbone, G., & Geonea, I. (Eds.). (2023). *New Trends in Medical and Service Robotics: MESROB 2023* (Vol. 133). Springer Nature.

C. Articole publicate în cadrul unor manifestări științifice, conferințe, reviste indexate:

1. Alexandru-Grigore PISOSCHI, A. CONSTANTINESCU, **Ionuţ D. GEONEA**, „*Determinarea mediei timpului de bună funcţionare minim după legea lui Poisson folosind repartiţia hi-pătrat pentru punţile motoare H 0835 de la autocamioanele ROMAN 8135 tip 4x2 după reparaţia capitală*", INMATEH 2005 –I- Lucrări Ştiinţifice cu tema: Transfer tehnologic şi afaceri inovative, ISBN 1583-1019, 2005.
2. Alexandru-Grigore PISOSCHI, A. CONSTANTINESCU, **Ionuţ D. GEONEA**, „*Prelucrarea datelor privind probabilitatea căderilor cilindrilor receptori frână punte spate de la un autoturism*", Conferinţa Naţională de Termotehnică cu Participare Internaţională, Ediţia a-XV-a, Universitatea din Craiova, Facultatea de Mecanică, Craiova, 26-28 mai, 2005, ISBN 973-742-089-6.
3. N. Dumitru, Copilusi C., **Ionuţ Geonea**, Al-Thahabi Zuhair, "*Dynamic response modelling of a robot with four degrees of freedom*", pp. 143-141, Conferinţa Internaţională PRASIC 2006, Braşov.
   http://www.dmg-lib.org/dmglib/main/portal.jsp?mainNaviState=browsen.docum.meta&id=23257009
4. N. Dumitru, Copilusi C., **Ionuţ Geonea**, Hoancă E., "*Considerations about the finite element modelling of transmission from the industrial robots structure*", pp. 134-142, Conferinţa Internaţională PRASIC 2006, Braşov.
   http://www.dmg-lib.org/dmglib/main/portal.jsp?mainNaviState=browsen.docum.meta&id=23328009
5. **Ionuţ GEONEA**, Copiluşi C., "*Considerations About Ecological Design of Agricultural Machines*", Primul simpozion cu participare internaţională " *Ingineria Mecanică şi Mediul*", CRAIOVA 2006.
6. **Ionuţ D. Geonea**, *Mechanical system link device carried plow modeling*, Analele Universităţii din Craiova, Agricultura - Montanologie - Cadastru, vol. XXXII B, 2007, pp. 164 – 171, ISSN 1841 8317.
   http://cis01.ucv.ro/analele_universitatii/agricultura/promo/romana/istoric.pdf

7. N. Dumitru, Ghe. Catrina, C. Copiluşi, **Ionuţ GEONEA**, *"Finite element modelling of snail and differential gears with applications in industrial robots"*, pp. 164 – 172, *The 1st International Conference ADEMS'07*. Cluj 2007. http://www.atna-mam.utcluj.ro/pdf/2007no50volII_cuprins_si_rezumate.pdf
8. Sorin Dumitru, Cristian Copilusi and **Ionuţ Geonea,** *"Snake Like Unit using Flexible Spines and Redundant Actuation"***,** pp. 193 – 201, 4th WSEAS/IASME International Conference on DYNAMICAL SYSTEMS and CONTROL (CONTROL'08). Corfu, Greece, 2008. (Cotaţie ISI Thompson). http://www.wseas.us/e-library/conferences/2008/corfu/control/control30.pdf
9. **Ionuţ. D. Geonea**, *The kinematics analyze of the cut off mechanism of a mower machine*, The Third Edition Of the International Conference About Optimization of The Robots and Manipulators - OPTIROB 2008, May 2008, pp. 101 – 106, ISBN 978 973 648 784 2.
10. **Ionuţ D. Geonea**, N. Dumitru, *The kinematic analyse of a mechanism used for the farming machine actuation*, Annals of the Oradea University - CD ROM Edition, Volume VII (XVII), 2008, pp. 285 – 292, ISSN 1583 0691. http://imtuoradea.ro/auo.fmte/files-2008/MECANICA_files/GEONEA%20IONUT%201.pdf
11. **Ionuţ D. Geonea**, N. Dumitru, Gh. Catrina, *The kinematic analyze of an eccentric mechanism of a mower machine*, Annals of the Oradea University - CD ROM Edition Volume VII (XVII), 2008, pp. 293 – 300, ISSN 1583 0691. http://imtuoradea.ro/auo.fmte/files-2008/MECANICA_files/GEONEA%20IONUT%202.pdf
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D. Articole publicate în reviste de specialitate, neindexate:

1. N. Dumitru, Ghe. Catrina, C. Copiluşi, **I. Geonea**, „*Modelarea cu elemente finite a transmisiilor melcate şi diferenţiale cu aplicaţii la roboţi industriali*”, pp. 84-96, Revista SASI, 2006, România.
2. **Geonea I.**, N. Dumitru, Ghe. Catrina, V. Roşca, „*Structure and kinematics of mechanisms used to mowers machine*”, Revista ştiinţifică a ARoTMM, Mecanisme şi manipulatoare, vol. 8, nr. 1, **2009**, pp. 71-76, ISSN 1583-4743.
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5. Antonescu O., **Geonea I.**, Antonescu P., „*Modeling and Simulation of a Didactic Minirobot*", International Journal Robotica & Management, Vol. 15, No. 1, June **2010**, pp. 3-6, ISSN 1453-2069.
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7. Radu Coltofeanu, **Ionuţ Geonea**, *Analiza structural-geometrică a unui manipulator bimobil utilizat la încărcarea – descărcarea pubelelor în autogunoiere*, Journal Mechanisms and Manipulators, Vol. 9, No. 1, p. 65-76, **2010**, ISSN 1583-4743.
8. **Ionuţ Geonea**, Nicolae Dumitru, Cristina Micu, *Dynamic Answer Modelling of a Manipulator Mechanism*, Journal Mechanisms and Manipulators, Vol. 9, No. 1, p. 89-94, **2010**, ISSN 1583-4743.

E. Proiecte de cercetare - dezvoltare pe bază de contract/grant:

1. Contract de cercetare CNCSIS, Tip TD 2007 cu titlul "*Cercetări privind analiza şi sinteza unor mecanisme de la maşinile agricole*". Director de proiect, Nr. contract: 234/1.10.2007, suma 15.038 RON
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2. Contract CEEX – Modul 1 Titlul: „Tehnologie si instalatie ecologica de detensionare a subansamblelor din otel turnate, forjate sau sudate"; anul 2006; sursa de finantare: CNCSIS, program CEEX. Director Proiect: Proca Victor, INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE SI INCERCARI PENTRU ELECTROTEHNICA ICMET DIN CRAIOVA, Suma aprobata: 274380 lei RON; poziţia ocupata: membru colectiv.
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=925, http://www.icmet.ro/ceex1.htm

3. Proiectul „Cursuri de perfectionare pentru tehnicienii din service-urile auto; Anul: 2007. Sursa de finantare: Uniunea Europeană prin programul PHARE; beneficiar: S.C. RALCOREX. SRL; suma aprobata: 85550 lei RON; director: prof. dr. ing. Paul Rinderu, Universitatea din Craiova, poziţia ocupata: membru.

4. Contract nr. 30C/ 16.03.2009, Studiu privind determinarea solicitărilor în mecanismul de cuplare cu ridicător hidraulic al tractorului MAT8001 – în agregat cu plugul reversibil PR3M. Beneficiar MAT SA Craiova, valoare contract 45000 RON, Director contract Prof. dr. ing. Neagoe Dumitru, perioada 2009-2010.

5. Expert, Proiectul „Consolidarea capacităţii instituţionale a Consorţiului Regional pentru educaţie şi formare profesională, cod contract: POSDRU/93/3.3/S/61944, Beneficiar, Agenţia pentru Dezvoltare Regională Sud Vest Oltenia, 2013. Manager Proiect, Director ADR Sud Vest Oltenia, Marilena Bogheanu.

6. Membru, Proiect, Cercetarea substituţiei osoase cu materiale biocompozite fabricate prin tehnici specifice metalurgiei pulberilor, Contract de cercetare PN-II-PT-PCCA-2013-4-2094, nr. 244/2014, valoare proiect 1437500 RON

7. Grant de Cercetare avansata, Universitatea din Craiova 45C/27.01.2014, Sistem mecanic inovativ pentru asistarea locomotiei persoanelor cu disabilitati, Director, valoare 12 000 RON.

8. Universitatea din Craiova POSDRU/159/1.5/S/133255 Bursa postdoctorala, POSDRU/159/1.5/S/133255, Cercetări privind dezvoltarea unui cărucior motorizat pentru deplasarea persoanelor cu disabilități locomotorii, valoare 66600 RON

9. Sistem robotic destinat reabilitarii locomotiei persoanelor cu deficiente neuromotorii, Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare Proiect experimental – demonstrativ, UEFISCDI - buget de stat, 239/2017. Director. Prof. Dr. Ing. Dumitru Nicolae.

10. Student azi, inginer mâine, Proiect National, Universitatea din Craiova, Proiectul privind Învățământul secundar ROSE SGU NC-Necompetitiv, Ministerul Educatiei, AG 254, director-Geonea Ionut Daniel, perioada implementare: 2019-2023, 25-11-2019, suma: 697841.00.

11. VIITOR STUDENT, National, Universitatea din Craiova, ROSE - Proiect privind Invatamantul Secundar, Ministerul Educatiei Nationale prin Unitatea de Management al Proiectelor cu Finantare Externa, nr. 303/SGU/PV/III/18.06.2020, director proiect Ionescu Adriana, perioada implementare: 2020 - 2022, semnare AG: 18-06-2020, suma 567850.00

12. Sistem robotic modular inovativ pentru recuperarea medicală a monoparezei brahiale, National, Universitatea Tehnica din Cluj Napoca, PN-III PED UEFISCDI, nr. 3022, director proiect: Pisla Doina, perioada: 2020-2022, data semnare 01-11-2020, suma: 600000.00

13. Amfiteatrul Studentiei, National, Universitatea din Craiova, ROSE-Proiect privind Invatamantul Secundar, Ministerul Educatiei Nationale prin Unitatea de Management al Proiectelor cu Finantare Externa, nr. 10/SGU/PV/I din 06.07.2107, director proiect: Tutunea Dragos, perioada implementare: 2017-2019, data semnare AG: 06-07-2017, suma: 530886.00.

14. 2014+:140783 / Start în carieră prin master didactic, director Proiect, Panea Nicu, Pozitia in proiect: Expert IT.

15. Proiect de cercetare, cu terți, "Analiza solicitărilor mecanice structurale a elementelor nodului 5, din componența podului Jiu-Bucovăț", Beneficiar DOMARCONS Craiova, contract nr. 51/14.02.2022. Suma 24 000 lei. Director contract. 2022.

F. Brevete obținute

1. Exoschelet destinat asistării mersului uman si reabilitării, Brevet de invenție nr. A 2019 – 00147, data înregistrării 05-03-2019, Oficiul de Stat pentru Invenții si Mărci, Geonea Ionut Daniel (Inventator), coautori: Dumitru Nicolae, Dumitru Sorin, Copilusi Cristian-Petre, Ciurezu-Gherghe Leonard Marius.
2. **Brevet de invenție**, RO 132701 A2, Exoschelet modular cu aplicații în recuperarea locomotorie a membrelor inferioare umane, Inventatori: **Geonea Ionut Daniel**, Daniela Tarniță.

Data,
28 Octombrie 2025

Semnătura,
Prof. dr. ing. Ionuț Daniel GEONEA