Dr. Murat BRONZ

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Diplomas

PhD, Ecole Doctoral Aéronautique Astronautique **October 2012**

Institut Supérieur de l' Aéronautique et de l'Espace (ISAE), Toulouse, France

- Thesis : "Long endurance Mini-UAV Design"

Masters, Faculty of Aeronautics and Astronautics **2008**
Aeronautical Engineer

Technical University of Istanbul, Istanbul, Turkey

- Thesis: "An experimental investigation of Bluff Body wake control"

Under Graduate, Faculty of Sciences and Technologies **2004**
Physician

Technical University of Yildiz, Istanbul, Turkey

Professional Experience

Holder of ENAC Drones and UTM Research Chair (Titulaire) **January 2023 - present**
ENAC Foundation,
Ecole National l'Aviation Civile (ENAC), Toulouse, France

Assistant Professor (Enseignant-chercheur) **April 2013 - present**
Dynamic Systems Axis, Optimization Team, ENAC-Lab
Ecole National l'Aviation Civile (ENAC), Toulouse, France

Invited Professor **May 2017 - September 2017**
MIT
Massachusetts Institute of Technology, Cambridge, MA, United States

Post-Doc Researcher **October 2012 - April 2013**
Dynamic Systems, Applied Aerodynamics
Ecole National l'Aviation Civile (ENAC), Toulouse, France

PhD and Valorisation Engineer **October 2011 - September 2012**
Institut Supérieur de l' Aéronautique et de l'Espace (ISAE), Toulouse, France

PhD **September 2008 - September 2012**
Institut Supérieur de l' Aéronautique et de l'Espace (ISAE), Toulouse, France

Research Assistant **December 2005 - June 2008**
Faculty of Aeronautics and Astronautics
Technical University of Istanbul, Istanbul, Turkey

Skills

- Languages: Turkish(native), English (fluent), French
- Programming Languages : Python, Fortran
- CAD : CATIA, OnShape
- OS: MacOS, Linux

Associations

- Member of Toulouse Triathlon University Club (TUC Triathlon) (2009-2013)
- Member of UUMK (Aeronautics and Astronautics Engineering Club) (2004 - 2008)

Interests

- Triathlon since 2009
- Rowing 1996-2005

Journal Papers

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[1] Luiz F Tiberio Fernandez, Murat Bronz, Nathalie Bartoli, and Thierry Lefebvre. Development of a mission-tailored tail-sitter mav. *Unmanned Systems*, 2023.

[2] Gautier Hattenberger, Murat Bronz, and Jean-Philippe Condomines. Evaluation of drag coefficient for a quadrotor model. *International Journal of Micro Air Vehicles*, 15:17568293221148378, 2023.

[3] Kirk Hovell, Steve Ulrich, and Murat Bronz. Learned multiagent real-time guidance with applications to quadrotor runway inspection. *Field Robotics*, 2022.

[4] Gautier Hattenberger, Titouan Verdu, Nicolas Maury, Pierre Narvor, Fleur Couvreux, Murat Bronz, Simon Lacroix, Grègoire Cayez, and Gregory C Roberts. Field report: Deployment of a fleet of drones for cloud exploration. *International Journal of Micro Air Vehicles*, 14:175682932110708, Jan 2022.

[5] Gautier Hattenberger, Murat Bronz, and Jean-Philippe Condomines. Estimating wind using a quadrotor. *International Journal of Micro Air Vehicles*, 14, Jan 2022.

[6] Maria Kezoudi, Christos Keleshis, Panayiota Antoniou, George Biskos, Murat Bronz, Christos Constantinides, Maximillien Desservettaz, Ru-Shan Gao, Joe Girdwood, Jonathan Harnetiaux, Konrad Kandler, Andreas Leonidou, Yunsong Liu, Jos Lelieveld, Franco Marenco, Nikos Mihalopoulos, Griaa Moanik, Kimmo Neitola, Jean-Daniel Paris, Michael Pikridas, Roland Sarda-Esteve, Chris Stopford, Florin Unga, Mihalis Vrekoussis, and Jean Sciare. The unmanned systems research laboratory (usrl): A new facility for uav-based atmospheric observations. *Atmosphere*, 12(8), 2021.

[7] Yuchen Leng, Thierry Jardin, Jean-Marc Moschetta, and Murat Bronz. Analytic model of proprotor forces and moments at high incidence. *Journal of the American Helicopter Society*, 2021.

[8] Elgiz Baskaya, Mahmoud Hamandi, Murat Bronz, and Antonio Franchi. A novel robust hexarotor capable of static hovering in presence of propeller failure. *IEEE Robotics and Automation Letters*, 2021.

[9] Ewoud J. J. Smeur, Murat Bronz, and Guido C. H. E. de Croon. Incremental control and guidance of hybrid aircraft applied to a tailsitter unmanned air vehicle. *Journal of Guidance, Control, and Dynamics*, 43(2):274–287, 2020.

[10] Jacson MO Barth, Jean-Philippe Condomines, Murat Bronz, Jean-Marc Moschetta, Cédric Join, and Michel Fliess. Model-free control algorithms for micro air vehicles with transitioning flight capabilities. *International Journal of Micro Air Vehicles*, 12:1756829320914264, 2020.

[11] Yuchen Leng, Murat Bronz, Thierry Jardin, and Jean-Marc Moschetta. Slipstream Deformation of a Propeller-Wing Combination Applied for Convertible UAVs in Hover Condition. *Unmanned systems*, July 2020.

[12] Nikola Gavrilović, Murat Bronz, and Jean-Marc Moschetta. Bioinspired Energy Harvesting from Atmospheric Phenomena for Small Unmanned Aerial Vehicles. *Journal of Guidance, Control, and Dynamics*, 43(4):685–699, April 2020.

[13] Baizura Bohari, Quentin Borlon, Murat Bronz, and Emmanuel Benard. Aerodynamic model of propeller–wing interaction for distributed propeller aircraft concept. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, page 0954410019857300, 2019.

[14] Nikola Gavrilovic, Murat Bronz, Jean-Marc Moschetta, and Emmanuel Bénard. Bioinspired wind field estimationpart 1: Angle of attack measurements through surface pressure distribution. *International Journal of Micro Air Vehicles*, 10(3):273–284, 2018.

[15] Christophe Reymann, Alessandro Renzaglia, Fayçal Lamraoui, Murat Bronz, and Simon Lacroix. Adaptive sampling of cumulus clouds with uavs. *Autonomous Robots*, pages 1–22, 2017.

[16] Murat Bronz and Antoine Drouin. Preliminary design estimation of the V/STOL airplane performance. *International Journal of Micro Air Vehicles*, 7(4), December 2015.

[17] Murat Bronz, Gautier Hattenberger, and Jean-Marc Moschetta. Development of a long endurance mini-uav: Eternity. *International Journal of Micro Air Vehicles*, 5(4):261–272, 2013.

[18] Murat Bronz, Jean-Marc Moschetta, Pascal Brisset, and Michel Gorraz. Towards a Long Endurance MAV. *International Journal of Micro Air Vehicles*, 1(4):241–254, 2009.

Conference Papers

[1] Luiz F Fernandez, Murat Bronz, Thierry Lefebvre, and Nathalie Bartoli. Assessment of closed loop dynamics in the multidisciplinary design and optimization of small uavs. In *AIAA AVIATION 2023 Forum*, page 3902, 2023.

[2] Mohamad Hachem, Thierry Miquel, Murat Bronz, and Clément Roos. Trajectory optimization for fully actuated hexacopters: Enhancing maneuverability and applications. In *IMAV 2023*, 2023.

[3] Adrian del Ser and Murat Bronz. Minimal communication between drones using guidance vector fields in dense airspace. In *2023 IEEE/AIAA 42nd Digital Avionics Systems Conference (DASC)*, pages 1–8. IEEE, 2023.

[4] Zeynep Bilgin, Murat Bronz, and Ilkay Yavrucuk. Automatic in flight conflict resolution for urban air mobility using fluid flow vector field based guidance algorithm. In *2023 IEEE/AIAA 42nd Digital Avionics Systems Conference (DASC)*, pages 1–7. IEEE, 2023.

[5] Luiz Tiberio Fernandez, Murat Bronz, Thierry Lefebvre, and Nathalie Bartoli. Multi-vehicle simulation framework for heterogeneous unconventional mavs. In *IMAV 2023*, 2023.

[6] Murat Bronz, Nikola Gavrilovic, Gautier Hattenberger, and Jean-Marc Moschetta. Simultaneous wind field measurements with doppler lidar, quadrotor and fixed-wing uav. In *AIAA SCITECH 2023 Forum*, page 0625, 2023.

[7] Zeynep Ünal, Murat Bronz, and İlkay Yavrucuk. Experimental evaluation of panel-method-based path planning for evtol in a scaled urban environment, 2022.

[8] Zeynep Bilgin, Murat Bronz, and Ilkay Yavrucuk. Experimental evaluation of robustness of panel-method-based path planning for urban air mobility. In *AIAA AVIATION 2022 Forum*, page 3509, 2022.

[9] Luiz FT Fernandez, Murat Bronz, Nathalie Bartoli, and Thierry Lefebvre. Development of a mission-tailored tail-sitter mav. In *13th edition of the International Micro Air Vehicle Conference and Competition-IMAV 2022*, 2022.

[10] Vincent Guibert, Jean-Philippe Condomines, Mathieu Brunot, Jean-Marc Biannic, and Murat Bronz. A hybrid polynomial stall model for the longitudinal dynamics of a uav. In *2022 International Conference on Unmanned Aircraft Systems (ICUAS)*, pages 617–625. IEEE, 2022.

[11] Gautier Hattenberger, Titouan Verdu, Nicolas Maury, Pierre Narvor, Fleur Couvreux, Murat Bronz, Simon Lacroix, Gregory C Roberts, and Grégoire Cayez. Field report: deployment of a fleet of drones for cloud exploration. In *12th International Micro Air Vehicle Conference and Competition*, Puebla, Mexico, November 2021.

[12] Gautier Hattenberger, Murat Bronz, and Jean-Philippe Condomines. Estimating wind using a quadrotor. In *international micro air vehicle conference (IMAV2021)*, 12th international micro air vehicle conference, pages 124–130, Puebla, Mexico, November 2021.

[13] Hector Garcia De Marina, Murat Bronz, and Gautier Hattenberger. Guiding vector fields in Paparazzi autopilot. In *12th international micro air vehicle conference (IMAV2021)*, pages 63–67, Puebla, Mexico, November 2021.

[14] Titouan Verdu, Nicolas Maury, Pierre Narvor, Florian Seguin, Gregory Roberts, Fleur Couvreux, Grégoire Cayez, Murat Bronz, Gautier Hattenberger, and Simon Lacroix. *Experimental Flights of Adaptive Patterns for Clouds Exploration with UAVs*. Springer, Cham, 2021.

[15] Murat Bronz, Nikola Gavrilovic, Antoine Drouin, Gautier Hattenberger, and Jean-Marc Moschetta. *Flight Testing of Dynamic Soaring Part-2 : Open-Field Inclined Circle Trajectory*. 2021.

[16] Murat Bronz, Nikola Gavrilovic, Antoine Drouin, Gautier Hattenberger, and Jean-Marc Moschetta. Flight testing of dynamic soaring part-1: Leeward inclined circle trajectory. In *AIAA Scitech 2021 Forum*, page 1527, 2021.

[17] Karim Fayez, Yuchen Leng, Thierry Jardin, Murat Bronz, and Jean-Marc Moschetta. Conceptual design for long-endurance convertible unmanned aerial system. In *AIAA Scitech 2021 Forum*, page 1059, 2021.

[18] Kirk Hovell, Steve Ulrich, and Murat Bronz. Acceleration-based quadrotor guidance under time delays using deep reinforcement learning. In *AIAA Scitech 2021 Forum*, page 1751, 2021.

[19] Murat Bronz, Ezra Tal, Federico Favalli, and Sertac Karaman. Mission-oriented additive manufacturing of modular mini-uavs. In *AIAA Scitech 2020 Forum*, page 0064, 2020.

[20] Yuchen Leng, Thierry Jardin, Murat Bronz, and Jean-Marc Moschetta. Experimental analysis of a blown-wing configuration during transition flight. In *AIAA Scitech 2020 Forum*, page 1983, 2020.

[21] Jacson M Olszanecki Barth, Jean-Philippe Condomines, Murat Bronz, Gautier Hattenberger, Jean-Marc Moschetta, Cédric Join, and Michel Fliess. Towards a unified model-free control architecture for tailsitter micro air vehicles: Flight simulation analysis and experimental flights. In *AIAA Scitech 2020 Forum*, page 2075, 2020.

[22] Elgiz Baskaya and Murat Bronz. Machine learning for drone operations: challenge accepted. In *2020 AIAA/IEEE 39th Digital Avionics Systems Conference (DASC)*, pages 1–10. IEEE, 2020.

[23] Murat Bronz, Elgiz Baskaya, Daniel Delahaye, and Stéphane Puechmore. Real-time fault detection on small fixed-wing uavs using machine learning. In *2020 AIAA/IEEE 39th Digital Avionics Systems Conference (DASC)*, pages 1–10. IEEE, 2020.

[24] Titouan Verdu, Nicolas Maury, Pierre Narvor, Florian Seguin, Gregory Roberts, Fleur Couvreux, Grégoire Cayez, Murat Bronz, Gautier Hattenberger, and Simon Lacroix. Experimental flights of adaptive patterns for cloud exploration with uavs. In *2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pages 1429–1435. IEEE, 2020.

[25] Y Leng, Murat Bronz, T Jardin, and Jean-Marc Moschetta. Slipstream deformation of a propeller-wing combination applied for convertible uavs in hover condition. 2019.

[26] Aurélien Cabarbaye, Titouan Verdu, Fabien Garcia, Michel Gorraz, Alexandre Bustico, Murat Bronz, and Gautier Hattenberger. Design of a high performance mav for atmospheric research. 2019.

[27] Murat Bronz. Comparison of pitching moment generation via flap deflection and thrust vectoring on a generic blown-wing model. In *AIAA Aviation 2019 Forum*, 2019.

[28] Yuchen Leng, Jean-Marc Moschetta, Thierry Jardin, and Murat Bronz. An analytical model for propeller aerodynamic efforts at high incidence. In *54th 3AF International Conference on Applied Aerodynamics, Paris*, 2019.

[29] Yuchen Leng, Heesik Yoo, Thierry Jardin, Murat Bronz, and Jean-Marc Moschetta. Aerodynamic modeling of propeller forces and moments at high angle of incidence. In *AIAA Scitech 2019 Forum*, page 1332, 2019.

[30] Hulya Biler, Anya R Jones, Murat Saritas, Idil Fenercioglu, Nuriye L Cetiner Yildirim, and Murat Bronz. Investigation of force transients during transverse and vortex gust encounters. In *AIAA Scitech 2019 Forum*, page 0636, 2019.

[31] Yuchen Leng, Thierry Jardin, Murat Bronz, and Jean-Marc Moschetta. Experimental analysis of propeller forces and moments at high angle of incidence. In *AIAA Scitech 2019 Forum*, page 1331, 2019.

[32] Murat Bronz, Egemen Aydin, Idil Fenercioglu, and Nuriye L Cetiner Yildirim. Simultaneous flow field investigation and force/moment measurements of a generic blown wing with control surface. In *AIAA Scitech 2019 Forum*, page 0580, 2019.

[33] Nikola Gavrilovic, Murat Bronz, Jean-Marc Moschetta, and Emmanuel Benard. Bioinspired energy harvesting from atmospheric phenomena for small unmanned aerial vehicles. In *AIAA Scitech 2019 Forum*, page 0570, 2019.

[34] Murat Bronz and Sertac Karaman. Preliminary experimental investigation of small scale propellers at high incidence angle. In *2018 AIAA Aerospace Sciences Meeting*, page 1268, 2018.

[35] Baizura Bohari, Quentin Borlon, Perla B Mendoza-Santos, Alessandro Sgueglia, Emmanuel Benard, Murat Bronz, and Sebastien Defoort. Conceptual design of distributed propellers aircraft: Non-linear aerodynamic model verification of propeller-wing interaction in high-lifting configuration. In *2018 AIAA Aerospace Sciences Meeting*, page 1742, 2018.

[36] Jean-Philippe Condomines, Murat Bronz, Leandro Ribeiro Lustosa, Jean-Marc Moschetta, Cédric Join, and Michel Fliess. Robust model-free control approach for fixed-wing mavs with uncertain parameters analysis. In *MMAR 2018. 23rd International Conference on Methods and Models in Automation and Robotics*, 2018.

[37] Jacson MO Barth, Jean-Philippe Condomines, Murat Bronz, Leandro R Lustosa, Jean-Marc Moschetta, Cédric Join, and Michel Fliess. Fixed-wing uav with transitioning flight capabilities: Model-based or model-free control approach? a preliminary study. In *2018 International Conference on Unmanned Aircraft Systems (ICUAS)*, pages 1157–1164. IEEE, 2018.

[38] Kimmo Neitola, Murat Bronz, Christos Keleshis, Panagiotis Vouterakos, Panayiota Antoniou, Konstantinos Barmpounis, Yannick Jestin, Jos Lelieveld, and Jean Sciare. Shipborne vertical profiles of dust aerosols obtained with unmanned aerial vehicles in the mediterranean and the middle east: First results of the aqaba campaign. In *EGU General Assembly Conference Abstracts*, volume 20, page 12710, 2018.

[39] Torbjørn Cunis, Murat Bronz, and Jean-Philippe Condomines. Analysis of the aerodynamic coefficients for the evolvable demonstrator for upset recovery approaches with evaluation in the wind-tunnel. In *GNC 2018, AIAA*. AIAA, 2018.

[40] Hector Garcia de Marina, Yuri A Kapitanyuk, Murat Bronz, Gautier Hattenberger, and Ming Cao. Guidance algorithm for smooth trajectory tracking of a fixed wing uav flying in wind flows. In *Robotics and Automation (ICRA), 2017 IEEE International Conference on*, pages 5740–5745. IEEE, 2017.

[41] Murat Bronz, Hector Garcia de Marina, and Gautier Hattenberger. In-flight thrust measurement using on-board force sensor. In *AIAA SciTech Forum 2017, AIAA Atmospheric Flight Mechanics Conference*. AIAA, 2017.

[42] Hector Garcia de Marina, Zhiyong Sun, Murat Bronz, and Gautier Hattenberger. Circular formation control of fixed-wing uavs with constant speeds. In *Intelligent Robots and Systems (IROS), 2017 IEEE/RSJ International Conference on*, pages 5298–5303. IEEE, 2017.

[43] Murat Bronz, Ewoud J Smeur, Hector Garcia de Marina, and Gautier Hattenberger. Development of a fixed-wing mini uav with transitioning flight capability. In *35th AIAA Applied Aerodynamics Conference*, page 3739. AIAA, 2017.

[44] Elgiz Baskaya, Murat Bronz, and Daniel Delahaye. Flight simulation of a mako uav for use in data-driven fault diagnosis. In *IMAV 2017, 9th international microair vehicle conference*, 2017.

[45] Nikola Gavrilovic, Murat Bronz, Jean-Marc Moschetta, Emmanuel Bénard, and Philippe Pastor. Bio-inspired wind field estimation-part 1: Aoa measurements through surface pressure distribution. In *IMAV*, 2017.

[46] Baizura Bohari, Murat Bronz, Emmanuel Benard, and Quentin Borlon. Conceptual design of distributed propeller aircraft: Linear aerodynamic model verification of propeller-wing interaction. In *7 TH EUROPEAN CONFERENCE FOR AERONAUTICS AND AEROSPACE SCIENCES (EUCASS)*, 2017.

[47] Torbjørn Cunis and Murat Bronz. Edura: an evolvable demonstrator for upset recovery approaches with a 3d-printed launcher. In *IMAV 2017, 9th International Micro Air Vehicle Conference and Competition*, 2017.

[48] Elgiz Baskaya, Murat Bronz, and Daniel Delahaye. Fault detection & diagnosis for small uavs via machine learning. In *DASC 2017, 36th IEEE/AIAA Digital Avionics Systems Conference*. AIAA; IEEE, 2017.

[49] Murat Bronz. Development of a transitioning vehicle: What we have learned so far. In *GT-UAV Workshop 2017*, 2017.

[50] Gavrilovic Nikola, Murat Bronz, Jean-Marc Moschetta, Emmanuel Benard, and Philippe Pastor. Bio-inspired wind field estimation-part 1: Aoa measurements through surface pressure distribution. In *IMAV 2017, 9th International Micro Air Vehicle Conference and Competition*, pages 1609301–1609301, 2017.

[51] Elgiz Baskaya, Guido Manfredi, Murat Bronz, and Daniel Delahaye. Flexible open architecture for uass integration into the airspace: Paparazzi autopilot system. In *35th Digital Avionics Systems Conference*, Sacramento, CA, September 25-29 2016. IEEE / DASC.

[52] Gautier Hattenberger, Alexandre Caradant, Antoine Drouin, and Murat Bronz. Electric propulsion system characterization through experiments. In *International Micro Aerial Vehicle Conference and Competition*, Beijng, China, October 17-21 2016. IMAV.

[53] E. Bouhoubeiny, E. Benard, M. Bronz, and N. Gavrilovic. Optimal design of long endurance mini UAVs for atmospheric measurements. In *Applied Aerodynamics Conference*, Bristol, UK, July 2016. Royal Aeronautical Society.

[54] Hector Garcia de Marina, Yuri A Kapitanyuk, Murat Bronz, Gautier Hattenberger, and Ming Cao. Guidance algorithm for smooth trajectory tracking of a fixed wing uav flying in wind flows. *arXiv preprint arXiv:1610.02797*, October 2016.

[55] Murat Bronz and Antoine Droin. Experimental verification of a semi-empirical v/stol aircraft performance analysis method. In *34th AIAA Applied Aerodynamics Conference, Washington, DC*. AIAA, June 2016.

[56] Murat Bronz and Gautier Hattenberger. Aerodynamic characterization of an off-the-shelf aircraft via flight test and numerical simulation. In *AIAA Flight Testing Conference, Washington, DC*. AIAA, June 2016.

[57] Murat Bronz, Jean-Philippe Condomines, and Gautier Hattenberger. Experimental wind-field estimation. In *International Society for Atmospheric Research using Remotely Piloted Aircraft, ISARRA*, Toulouse, France, May 2016.

[58] Simon Lacroix, Greg Roberts, Emmanuel Bénard, Murat Bronz, Fédéric Burnet, Elkhedim Bouhoubeiny, Jean-Philippe Condomines, Carsten Doll, Gautier Hattenberger, Faycal Lamraoui, Alessandro Renzaglia, and Christophe Reymann. Fleets of enduring drones to probe atmospheric phenomena with clouds. In *International Society for Atmospheric Research using Remotely Piloted Aircraft, ISARRA*, Toulouse, France, May 2016.

[59] Greg Roberts, Radiance Calmer, Kevin Sanchez, Gregoire Cayez, Keri Nicoll, Jurgita Ovadnevaite, Murat Bronz, Gautier Hattenberger, Jana Preissler, and Danny Rosenfeld. Bottom-up and top-down closure of aerosol-cloud interactions using RPAS. In *International Society for Atmospheric Research using Remotely Piloted Aircraft, ISARRA*, Toulouse, France, May 2016.

[60] Simon Lacroix, Greg Roberts, Emmanuel Benard, Murat Bronz, Frédéric Burnet, Elkhedim Bouhoubeiny, Jean-Philippe Condomines, Carsten Doll, Gautier Hattenberger, Fayal Lamraoui, Alessandro Renzaglia, and Christophe Reymann. Fleets of enduring drones to probe atmospheric phenomena with clouds. In *Aircraft-based observation of the atmosphere and atmosphere-surface exchange processes, European Geosciences Union General Assembly 2016*, April 2016.

[61] Greg Roberts, Radiance Calmer, Kevin Sanchez, Grgoire Cayez, Kerianne Nicoll, Eyal Hashimshoni, Daniel Rosenfeld, Albert Ansmann, Jean Sciare, Jurgita Ovadneite, Murat Bronz, Gautier Hattenberger, Jana Preissler, Johannes Buehl, Darius Ceburnis, , and Colin O'Dowd. multi-dimensional cloud-aerosol exploratory study using rpas (mceres): Bottom-up and top-down closure of aerosol-cloud interactions. In *Impact of Biogenic versus Anthropogenic emissions on Clouds and Climate: towards a Holistic UnderStanding (BACCHUS), European Geosciences Union General Assembly 2016*, April 2016.

[62] Radiance Calmer, Greg Roberts, Kevin Sanchez, Keri Nicoll, Jana Preissler, Jurgita Ovadnevaite, Jean Sciare, and Murat Bronz. Experimental study of aerosol-cloud interactions using a 5-hole probe with remotly piloted aircraft. In *Atmospheric and Meteorological Instrumentation, European Geosciences Union General Assembly 2016*, April 2016.

[63] Radiance Calmer, Greg Roberts, Kevin Sanchez, Keri Nicoll, Jana Preissler, Jurgita Ovadnevaite, Jean Sciare, and Murat Bronz. Implementation of a 5-hole probe on remotely piloted aircraft for aerosol-cloud interaction measurements. In *International Society for Atmospheric Research using Remotely Piloted Aircraft, ISARRA*, Toulouse, France, May 2016.

[64] Murat Bronz and Gautier Hattenberger. Design of a high-performance tailless mav through planform optimization. In *33rd AIAA Applied Aerodynamics Conference, Dallas, TX*, pages eISBN–978. AIAA, June 2015.

[65] Murat Bronz and Antoine Drouin. Preliminary design estimation of the v/stol airplane performance. In *IMAV 2015, International Micro Air Vehicles Conference and Flight Competition*, Aachen, September 2015.

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[67] Murat Bronz and Gautier Hattenberger. Recent advances in paparazzi system for meteorological research at enac. In *International Society for Atmospheric Research using Remotely Piloted Aircraft, ISARRA, 2015*, 2015.

[68] Grégoire Cayez, Jean-Philippe Dralet, Yann Seity, Géraud Momboisse, Gautier Hattenberger, Murat Bronz, and Greg Roberts. Using remotely piloted aircraft system to study the evolution of the boundary layer related to fog events. In *ISARRA 2014, 2nd Conference of the International Society for Atmospheric Research using Remotely piloted Aircraft*, 2014.

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[73] Murat Bronz, Gautier Hattenberger, and Jean-Marc Moschetta. Development of a Long Endurance Mini-UAV : ETERNITY. In *IMAV 2013, International Micro Air Vehicle Conference and Flight Competition*, page pp xxxx, Toulouse, France, September 2013.

[74] Murat Bronz, Jean-Philippe Condomines, and Gautier Hattenberger. Development of an 18cm micro air vehicle: Quark. In *IMAV 2013, International Micro Air Vehicle Conference and Flight Competition*, pages pp–xxxx, 2013.

[75] Murat Bronz, Jean-Marc Moschetta, and Gautier Hattenberger. Multi-point optimization of a propulsion set as applied to a multi-tasking mav. In *International Micro Aerial Vehicle Conference and Competition*, July 2012.

[76] Murat Bronz, Jean-Marc Moschetta, and Pascal Brisset. Flying Autonomously to Corsica : A Long Endurance Mini-UAV System. In *IMAV2010*, Braunschweig, Germany, July 2010.

[77] Murat Bronz, Jean-Marc Moschetta, Pascal Brisset, and Michel Gorraz. Towards a Long Endurance MAV. In *EMAV2009*, Delft, Netherlands, September 2009.

[78] Pascal Brisset, Murat Bronz, Michel Gorraz, and Jeremy Tyler. Yap (yet another paparazzi). 2008.

[79] Saliha Banu Murat Bronz, Oksan Cetiner, and Mehmet Fevzi Unal. Influence of attached and detached splitter plates on near wake of a circular cylinder. In *4th International Conference on Vortex Flows and Models ICVFM2008*, Daejeon, Korea, 21-23 April 2008.

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